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PERSONAL.

Mr. James J. Morrissey has been elected City Engineer of Dunkirk, N. Y.

Gen. Avery D. Andrews has succeeded Gen. Francis V. Greene, M. Am. Soc. C. E., as President of the Barber Asphalt Paving Co.

Mr. Fred T. Perris, Chief Engineer of the Southern California Ry., has been succeeded by Mr. R. B. Burns, Chief Engineer of the Santa Fe Pacific Ry.

Mr. F. T. F. Lovejoy, Secretary of the Carnegie Steel Co.,has resigned and will be succeeded by Mr. A.W. Moreland, who has been an auditor of the company.

Mr. R. Bainlesco, Chief Engineer of the Roumanian government railways, has been in the United States lately studying American practice in railway operation.

Dr. F. A. C. Perrine, of the Leland Stanford Junior University of California, has accepted a position on the technical staff of the John A. Roebling's Sons Co., of Trenton, N. J.

Mr. Orrin Stratton has been elected City Engineer of Colfax, Wash. Mr. Stratton is a graduate of the Washington Agricultural College, Department of Civil Engineering.

Capt. Ira MacNott, Ordnance Department, U. S. A., has received orders to proceed to Sandy Hook Proving Grounds, on business pertaining to the firing test of the 10-inch Brown segmental-tube wire gun.

Mr. John H. Moffitt has been appointed Superintendent of the Water Department of Syracuse, N. Y., to succeed Mr. Wm. R. Hill, M. Am. Soc. C. E., who was recently appointed engineer of the Croton Aqueduct Commission of New York.

Mr. Pope Yeatman, General Manager, and J. P. Pitchford, Consulting Engineer of the Robinson Mines, South Africa; Chief Engineer Messer, of the Consolidated Gold Fields, and Mr. Gazzam, of Neumann's, South Africa, are now on a visit to America.

Mr. G. B. Strickler has been transferred from his position as Assistant to Superintendents of Construction, U. S. Life Saving Stations, New York city, to that of Superintendent of Construction, U. S. Public Buildings, and assigned to duty at Dubuque, Ia.

Mr. D. E. Hale has been appointed to succeed Mr. E. F. Van Hoesen, M. Am. Soc. C. E., as Division Engineer of the Western Division of the New York Central & Hudson River R. R. Mr. Van Hoesen has accepted the position of Chief Engineer and Superintendent of the Empire State Power Co., of Amsterdam, N. Y.

Prof. Reginald A. Fessenden, of the Electrical Engineering Department of the Western University of Pennsylvania, at Allegheny, Pa., has resigned to accept an important position in the Weather Bureau at Washington, D.C. Professor Fessenden will carry on experiments in wireless telegraphy for the Bureau.

Col. H. Brynk, Chief of the Russian Board of Special Armor Plate Inspection; Mr. J. Wencelidesh, a member of the board, and Lieutenants P. Macedinsug and O. Rischer, who are stationed at the Cramp shipyards to oversee the building of a Russian battleship, recently visited the Carnegie armor plant at Pittsburg, Pa., with a view of obtaining armor-plate for the Russian government.

Capt. Frederick J. Mills, C.E., Lieutenant-Governor of Idaho in 1896, and later State Engineer, and an officer of the 3d Regiment of Volunteer Engineers during the Spanish War, was on Jan. 20 acquitted of the charge of murder. Captain Mills on Oct. 3 last shot and killed J. C. O'Melveney, Chief Engineer of the Oregon Short Line R. R., in his office in Salt Lake City. The evidence presented at the trial showed that at the time of the shooting Captain Mills was mentally unbalanced as a result of a long and severe illness, coupled with mental shock due to the discovery that O'Melveney, who had been for years an intimate friend, had seduced Mill's wife during his absence in the army.

Mr. John B. McDonald, who has been awarded the contract for building the New York rapid transit underground railway, was born in Ireland 56 years ago and came to the United States when 15 years old. He was educated in the public schools of New York city. He first began work when still young as timekeeper at the building of the Boyd's Corner Reservoir, in Putnam County, New York. Later he was inspector of masonry on the Fourth Avenue tunnel construction in New York city. He then became a contractor and carried out extensive work on the Central R. R. of New Jersey, the Canadian Pacific Ry., the Boston & Hoosac Tunnel, the Delaware, Lackawanna & Western R. R., and the West Shore R. R. He was the contractor for the Baltimore Belt Tunnel, built to give the Baltimore & Ohio R. R. an entrance to the city of Baltimore, Md. At the present time he is the contractor for building the Jerome Park Reservoir for the water supply of New York city.

OBITUARY.

Mr. Frank C. Tryon, Jr., Superintendent of the Huntington, L. I., Electric R. R., died Jan. 14.

Mr. Justus Roe died recently at his home in Brooklyn, N. Y. Mr. Roe was a civil engineer and surveyor, and senior member of the firm of Justus Roe & Sons, manufacturers of steel tapes.

Mr. Ivers P. Morris, of the Engineering Department of the Michigan Central R. R., died Jan. 16, at his home in Detroit, Mich. Mr. Morris came to this country 47 years ago and has been in the employ of the above railway company ever since.

Mr. George Paul, civil engineer of Cuyahoga Falls, O., died Jan. 9 at his home at the above place. Mr. Paul was an engineer in the U. S. Navy during the Civil War, and since then followed civil engineering. He was at one time Chief Engineer of the Chicago & Atlantic R. R.

Mr. Thomas Burton, a mechanical engineer of Pittsburg, Pa., died Jan. 12 in that city. Mr. Burton was a native of Chorley, Lancashire, England, and came to this country 18 years ago. He was first employed by the Keystone Bridge Co., later becoming connected with W. P. Snyder & Co., where he remained 10 years. His last position was with Banning, Cooper & Co., of Pittsburg.

Prof. David E. Hughes, inventor of the Hughes Printing Telegraph, died in London, England, on Jan. 23. Prof. Hughes was born in London in 1831, and was educated at Bardstown College, Kentucky. He was the inventor of the induction balance, and the discoverer of the microphone, now almost universally used as transmitter to the telephone. He was the author of numerous papers upon electricity and magnetism.

Prof. Henry Allen Hazen, one of the chief forecasters of the Weather Bureau,died in Washington, D.C., on Jan. 23, from injuries received in a bicycle collision. Prof. Hazen was born in Serut,India, 50 years ago, his father being at that time a missionary. He graduate from Dartmouth College in 1871, and then was connected with the scientific department of Yale for nine years. He joined the United States Signal Service, now the Weather Bureau, in 1881.

Lieut. F. C. Burchard, Assistant Engineer, U. S. N., retired, died at his home in Philadelphia, Pa., on Jan. 15. Lieut. Burchard entered the naval service in 1863, and up to the date of retirement in 1877 had been in continuous active service. He served in the West Gulf blockading squadron on the U. S. S. "Pensacola" in 1863. He was attached to the U. S. gunboat "Winona," in the North Atlantic squadron, and was in numerous engagements in the sounds and rivers of North and South Carolina. He was attached to the U. S. sloop of war "Juniata" in the attack and capture of Fort Fisher. He served on the U. S. sloop of war "Ossipee," in the North Pacific squadron for nearly three years, when that vessel took to Alaska the United States commissioners to receive that territory from Russia. He also served for a short time on the U. S. monitor "Terror," at Key West, in 1878, and on the U. S. monitor "Mahopac," in 1874, when trouble was anticipated with Spain over the "Virginius" affair.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
Jan. 30. Annual meeting at Montreal, P. Q. Secy., C. H. McLeod, 112 Mansfield St., Montreal, P. Q.
INDIANA ENGINEERING SOCIETY.
Feb. 1 to 3. Annual meeting at Lafayette, Ind. Secy., Jos. B. Nelson, 61 Baldwin Blk., Indianapolis, Ind.
LAKE SUPERIOR MINING INSTITUTE.
Feb. 6. Annual meeting at Iron Mountain, Mich. Secy., F. W. Speer, Houghton, Mich.
AMERICAN PAPER AND PULP ASSOCIATION.
Feb. 14 and 15. Annual meeting at New York city. Secy., C. W. Rantout, 101 Times Building, New York city.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Feb. 20. Annual meeting at Washington, D. C. Secy., R. W. Raymond, 99 John St., New York city.
ASSOCIATION OF ONTARIO LAND SURVEYORS.
Feb. 27 to March 1. Annual meeting at Toronto, Can. Secy., A. J. Van Nostrand, Yonge St. Arcade, Toronto, Can.

COMING LOCAL MEETINGS.

ENGINEERS' CLUB OF MINNEAPOLIS.
Feb. 1. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
CHICAGO ELECTRICAL ASSOCIATION.
Feb. 2. Secy., Cloyd Marshall, 1310 Monon. Bldg., Chicago, Ill.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
Feb. 2. At San Francisco. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.
ENGINEERS' CLUB OF COLUMBUS.
Feb. 3. Secy., H. M. Gates, 12½ North High St., Columbus, O.
ENGINEERS' CLUB OF PHILADELPHIA.
Feb. 3. Secy.; L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.
ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Feb. 5. At Buffalo. Secy., H. J. March, Library Bldg., Buffalo, N. Y.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
Feb. 7. At New York. Secy., C. W. Hunt, 220 W. 57th St., New York city.
ENGINEERS' CLUB OF ST. LOUIS.
Feb. 7. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.
BROOKLYN ENGINEERS' CLUB.
Feb. 8. At Brooklyn, N. Y. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
ST. LOUIS RAILWAY CLUB.
Feb. 9. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

TENNESSEE RIVER IMPROVEMENT ASSOCIATION.—The association held its third annual meeting at Nashville, Tenn., on Jan. 10. The result is a memorial to Congress asking for further immediate appropriations for the improvement of the river; especially at the Calbert Shoals, and the lock and dam in the mountain sections. They also ask consideration for the tributaries of the Tennessee. A committee of 15 was appointed to urge these matters upon Congressmen.

WESTERN RAILWAY CLUB.—At the meeting on Jan. 16, with the President, Mr. Hetzler, in the chair, there was a large attendance to listen to a paper by Mr. F. A. Delano, Superintendent of Motive Power of the Chicago, Burlington & Quincy R. R., on "What Does it Cost to Run Trains at High Speed?" We give an abstract of this in another column. Mr. W. H. Edgar gave an address on "Boiler Feed Waters; Different Treatments, Why They Fail, Results Obtained, and Action of Known Chemicals."

CIVIL ENGINEERS' SOCIETY OF ST. PAUL.—The 16th annual meeting of the society was held in St. Paul, Minn., on Jan. 15. The following officers were elected: President, Capt. A. O. Powell; Vice-President, A. W. Munster; Secretary, C. L. Annan; Treasurer, A. H. Hogeland; Librarian, C. A. Winslow; Representative on Board of Managers of the Association of Engineering Societies, Geo. L. Wilson. Mr. W. A. Truesdell read a paper on the "Life of Archibald Johnson, Late Member of the Society." After adjournment a social hour was spent in the dining room.

C. L. Annan, Secy.

LAKE SUPERIOR MINING INSTITUTE.—The next meeting of the Institute will be held on the Menominee Range, beginning at Iron Mountain, Mich., on Feb. 6. The following program has been provisionally arranged: Tuesday morning on arrival of trains from the south and east a special train will convey the party to the mines east of Iron Mountain and the paper mill at the Lower Quinnesec Falls. On Wednesday the Iron River and Crystal Falls districts will be visited and Thursday will be spent at the mines at Iron Mountain. Tuesday evening sessions will be held at Iron Mountain, and Wednesday evening at Crystal Falls. Papers will be presented by Messrs. O. C. Davidson, H. H. Dyer, L. M. Hardenburg, James McNaughton, and A. W. Thompson.

F. W. Sperr, Secy.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—The 20th annual meeting of the society was held at Pittsburg, Pa., Jan. 16. The new officers elected for the ensuing year are as follows: President, one year, W. A. Bole; Vice-President, two years, C. F. Scott; Directors, two years, Gustave Kaufman, C. B. Albree; Secretary, one year, R. A. Fessenden; Treasurer, one year, A. E. Frost. The President, Mr. Harry J. Lewis, read his retiring address, in which he touched on the changes in the economic conditions which have taken place during the last twenty years. At the regular monthly meeting which followed, the principal business consisted of the appointment of a committee to devise means for the purchase of a permanent home for the society. It was suggested that the existing surplus of $500 be reserved as a nucleus for this fund, and a number of liberal subscriptions, amounting in all to $500, were subscribed by members present.

R. A. Fessenden, Secy.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The annual meeting of the society was held at the society's house in New York city on Jan. 17 and 18. The report of the Board of Direction was received and ordered to be printed in the Proceedings. An abstract of this report was published in our last issue. Reports were received from a number of standing and special committees. In accordance with the resolution adopted at the annual meeting of Jan. 18, 1899, which requested the Committee on Uniform Standard Time to submit a final report. Mr. Sanford Flemming, the Chairman of the Committee, submitted a sommunication reviewing briefly the work of the committee and urging that the society should not place itself on record as opposing the 24-hour system of notation. This communication was accepted and a vote of thanks was given to the committee for its labors. At the annual convention of the society, held June 28, 1899, a resolution was introduced and actively discussed, which provided that the society should pay the traveling expenses of the members of the Nominating Committee who came from a distance to attend its meeting. The result of the discussion at that time was that Board of Direction was instructed to take the whole matter under advisement and report at the next meeting, which was the one held last week. The report of the Board of Direction was in substance that no change appeared to be called for in this respect, and this report was accepted and adopted after some discussion by vote of the meeting. The committee appointed to report upon the matter of improving the acoustics of the convention hall of the society's house reported that the peculiar reverberation was caused by lack of furniture and because of the hard polished surfaces of the walls. To remedy the difficulty, it was recommended that the walls be covered with burlap and that hangings, carpets, etc., be provided. The special committee "On the Proper Manipulation of Tests of Cement" reported progress, and it was ordered continued by vote of the meeting. These committee reports were followed by an informal discussion respecting the arrangements for the next annual convention, which is to be held in London, England, in June, 1900. The report of the tellers showed the following officers to have been elected for the ensuing year: President, John Findlay Wallace, Chicago; Vice-Presidents, Rudolph Hering, New York, and Alfred Noble, Chicago; Treasurer, Joseph M. Knap, New York; Directors, John F. O'Rourke and

CANADA.—It is reported that L. A. Manly, Mayor of Grand Forks, B. C., proposes to build a railway from the international boundary line at Cascade to the boundary line at Midway, with branches to surrounding camps.

CAROLINA & SOUTHWESTERN.—This company is reported to have been incorporated in South Carolina to build and operate a railway, by J. K. Garnet, W. A. Barber and W. J. Gooding.

CLEVELAND & PITTSBURG.—Bids are asked until Jan. 30 for grading about two miles for second track and sidings at Bedford, O., as stated in our advertising columns. Thomas Rodd, Ch. Engr., Pittsburg, Pa.

COLUMBUS, BLOOMINGTON & TERRE HAUTE.—This company is reported to have been incorporated Dec. 29 in Indiana, with Edwin S. Brodix, Pres.; Charles W. Shaw, Vice-Pres.; A. V. Taris, Secy., all of Bloomington, Ind., to build a road, 91 miles long, from Columbus, O., to Terre Haute. The company has a capital stock of $100,000. Subsidies amounting to nearly $125,000 have been voted by towns interested in the project. An election will be held in Perry, Feb. 7, to vote on the question of granting a subsidy of $29,600 for the line. The road will cost about $1,000,000 to build.

DELAWARE, LACKAWANNA & WESTERN.—Mayor Seymour, of Newark, N. J., has appointed a committee to consult with the officials of this company with a view to abolishing the grade crossings in this city, for which plans are prepared. W. K. McFarlin, Ch. Engr., Hoboken.

DULUTH TRANSFER.—An order has been filed by Judge Cant, permitting this company to condemn lands at Rice's Point, Minn., for the purpose of reaching the new elevators at the foot of the point with its tracks. James T. Hale, Frank E. Kennedy and H. W. Coffin have been appointed commissioners in condemnation, according to reports. H. J. Fetter, Ch. Engr., Duluth, Minn.

ERIE-EASTON.—It is reported that the council of Erie, Pa., has granted a franchise to this company which gives a valuable water frontage on Presque Isle Bay for its line, which will extend from Erie to Indiana and Clearfield counties, to open up the coal fields and compete with other lines. It is stated that the road will be built this year by Pittsburg capitalists.

ERIE & WYOMING.—A. D. Blackington, Ch. Engr., Dunmore, Pa., is reported as stating that the contracts for construction work on the branch lines of this road to connect with the main line, will soon be let. The extensions are to be made in the Lackawaxen and Wyoming regions, and a new line from Lackawanna, Pa., to Kingston, N. Y., will soon be built. Surveys for branch connecting with different collieries have been made. The erection of about two miles of bridging will be necessary.

FORT WAYNE, CINCINNATI & LOUISVILLE.—F. H. Perry, Ch. Engr., Indianapolis, Ind., informs us that the report in our issue of Jan. 11 stating that it was reported that this line would elevate its tracks between Woods Run and Pittsburg, Pa., to abolish the grade crossings, was erroneous, as this line does not touch Pittsburg.

GEORGIA PINE.—J. P. Williams, Pres., Savannah, Ga., is reported as stating that arrangements for the extension of this road from its present terminus at Arlington, on the Albany branch of the Central of Georgia Ry., to Cuthbert, a distance of about 25 miles, are being made. A line to Tallahassee is also proposed, but nothing will be done until the Cuthbert extension is completed.

GRAND RAPIDS, BELDING & SAGINAW.—W. H. Clark, Lowell, Mich., informs us that the line to Greenville, Mich., 19 miles, has been surveyed, and the construction will be done by the company. E. H. Christ, Ch. Engr., Grand Rapids, Mich.

GRAND TRUNK.—Joseph Hobson, Ch. Engr., Montreal, Que., writes us that the only new work that is going on between Montreal and Portland, on the Grand Trunk Ry., is the renewal of bridges. The superstructure of all bridges between Montreal and Island Pond, a distance of 148 miles, has been completed. The renewal of the bridges between Island Pond and Portland is in progress. These structures are all built for the heaviest rolling stock and loads. The Detroit Bridge & Iron Works, Detroit, Mich., have the contract for all the steel work, and the masonry work is being done by the company.

GULF & BRAZOS VALLEY.—The railroad commissioners of Texas have authorized this company to issue bonds to the amount of $12,715 per mile on 10½ miles of completed line from Peck City to Mineral Wells, Tex.

GULF, COLORADO & SANTA FE.—Reports state that this company proposes to expend about $40,000 in terminal improvements at Paris, Tex., this year. C. F. W. Felt, Ch. Engr., Galveston, Tex

KINGSTON & ROUNDOUT VALLEY.—This company has filed maps of its route in the office of the county clerk at Kingston, N. Y. The road will extend from Kingston to Ellenville, N. Y., and from there has secured trackage rights over the Ontario & Western to Summitville, and from Summitville to Port Jervis, over the Port Jervis, Monticello & New York, a distance of 60 miles. Surveys are now under way, and it is stated that the work was commenced on Jan. 8, near Napanoch. Half of the rights of way between Kingston and Ellenville have been secured, and it is probable that the road will be completed and in operation by August, as rails have been contracted for, and the grades are easy and few bridges will be needed.

LIMA BELT.—This company is reported to have been incorporated in Ohio with a capital stock of $10,000, to build and operate a railway. C. A. Matheany, W. H. Duffield and W. K. Boon, Lima, O., are interested.

NEW YORK CENTRAL & HUDSON RIVER.—The officials of this company are reported to have announced that it is proposed to expend about $640,000 in Schenectady, N. Y., for the abolishment of grade crossings and a new station, the work to begin in the spring. F. S. Curtis, Div. Engr., Kingston, N. Y.——It is reported that surveys are being made in the interest of this company between McGee's mills, about two miles west of Mahaffey, Pa., and Canoe Creek, the contemplated route up Cush Creek to the Mahoning apparently having been abandoned. This will be the extension of the Pitsburg & Eastern, and will eventually connect with the Buffalo, Rochester & Pittsburg R. R. at Punxsutawney. Former Vice-Pres. S. H. Hicks, Mahaffey, has been retained as general manager of the construction work. The extension will tap the new coal fields about McGees, Sidney, Hillman and the Canoe Valley, and will also open to the market the beds of fireclay and paving brick clay found near Mahaffey.

NORFOLK & WESTERN.—Reports from Abingdon, Va., state that this company has purchased the Damascus railway franchise for a road leading southeast from this town to Damascus, Va., which controls the gap to the immense timber and iron lands of Johnson county, Tenn., and Ashe county, N. C. The line is 16 miles in length and was graded nearly ten years ago.

OKLAHOMA.—C. B. Ames, Pres., Oklahoma City, Okla. Ter., writes us that the surveys for this line, which will extend through Kingfisher and Oklahoma City, Okla. Ter., to Colgate, Ind. Ter., 200 miles, will be started about Feb. 1, and as soon as they are completed the contracts for construction will be let. Mr. Ames states that part of the construction capital has been secured, and that he has assurances for the remainder. The road will traverse a splendid agricultural country and will reach into the best coal fields in Indian Territory.

PENNSYLVANIA. R. R.—Reports state that it is proposed to spend $300,000 on the Cleveland & Pittsburg R. R., the money to be used for double tracking between Hudson and eBdford, about 4.7 miles; also for changing the grade of this line from 9 to 6%, and for erecting a bridge over Tinker's Run. The improvements will be a continuance of the double tracking from Cleveland to Hudson, and will be begun at once. W. H. Brown, Ch. Engr., Philadelphia.

PENNSYLVANIA.—Press reports state that the company owning the Byers-Allen saw mill, recently completed, in the mountains above Ligonier, Pa., will soon begin the construction of a railway across the mountains to Somerset, shortening the route to Pittsburg by about 35 miles.

PORT HURON & RIVER ST. CLAIR.—This company is reported to have been organized by the Port Huron Salt Co., capital stock $350,000, to build a road from the company's salt plant, four miles from Detroit, Mich., to connect with the Grand Trunk Ry. J. W. Cooper, St. Paul, Minn.; Peter Reiss, Sheboygan, Wis.; Hartson G. Barnum, Port Huron, Mich., are interested.

QUEEN ANNE'S.—I. N. Troxel, Ch. Engr., Queenstown, Md., writes us that surveys have been made and right of way secured for a 6-mile extension of this line, for which the contract for grading has been let, and the rails received. The work will be started soon. Wm. H. Basley, Pres., Baltimore, Md.

ST. LOUIS, KANSAS CITY & COLORADO.—We are informed that the contract for constructing a road for this line from Union, Mo., the present terminus, to Sibley, Tex., has been let to Messrs. Scullen and Francis. The line from Union, Mo., to Koeltztown, Mo., will be built by Francis & Co. The work embraces about 208 miles of railway construction, and, together with the road from St. Louis to Union, 60 miles, will make the shortest route to Kansas City, Mo. The maximum grade is 1% and the sharpest curve will be 6°. The line is a part of the Atchison, Topeka & Santa Fe R. R. system. N. M. Mitchell, Mgr., Roe Building, St. Louis, Mo.; J. Dun, Ch. Engr., Topeka, Kan.

TALLAHASSEE SOUTHEASTERN.—R. L. Bennett, Ch. Engr., Tallahassee, Fla., writes us that 21 miles of this line has been completed and put in operation, 10 additional miles graded and 15 miles of route cleared. Surveys have been made to Perry, for which the contracts will soon be let. The line will be 100 miles long and will extend from Tallahassee, Perry to Suwannee River and to Gainesville, Fla. S. F. McGarry, Pres., Grand Rapids, Mich. (see issue of Nov. 30).

TEXAS.—Will Elliott, Cy. Engr., Corsicana, Tex., is reported to have started a preliminary survey of a railway from Austin to the town site of Indianola, on Matagorda Bay.

VIRGINIA & SOUTHWESTERN.—F. R. Barrett, Engr. Maintenance of Way, Bristol, Tenn., informs us that the grading of this line from Elizabethtown to Mountain City, Tenn., 48 miles, has been completed, and 11 miles of track laid. The work will be completed in 60 days.

WEST JERSEY & SEASHORE.—J. H. Nichols, Asst. Engr., Camden, N. J., writes us that the report of the construction of a branch of this line from Wolferts to Mullica Hill, N. J., is erroneous, and that no such work is contemplated.

WINSTON-SALEM & CAROLINA.—This company has been incorporated in South Carolina to build and operate a railway. The capital stock is $3,000,000. J. U. Fries, W. A. Lemley, C. B. Watson and others were the incorporators.

WISCONSIN, MICHIGAN & NORTHERN.—J. J. Coleman, Vice-Pres., Old Colony Building, Chicago, Ill., writes us that 7 miles of this line have been graded, but no rails have been laid. The line will be 13 miles long. S. M. Fischer, Pres., Old Colony Building, Chicago; B. C. Gowan, Ch. Engr., Pestigo, Wis.

STREET AND ELECTRIC RAILWAYS.

AUGUSTA, ME.—H. M. Heath writes us that the extension of the Lewiston, Brunswick & Bath St. Ry. from Brunswick, Freeport, to Yarmouth, 14 miles, has been surveyed, but no further progress has been made. A. H. Shaw, Pres., Bath, Me.; J. A. Jones, Ch. Engr., Lewiston, Me. (See issue of Jan. 18.)

PORTSMOUTH, N. H.—Local papers state that arrangements are being perfected for the extension of the Portsmouth & Dover St. Ry. to Rye and Hampton. A storage plant, to be erected at Rye and supplied from the plant in this city, is proposed. The building and plant will cost about $40,000.

BOSTON, MASS.—The Greenfield & Deerfield St. Ry. is reported to have filed articles of incorporation to build a railway and a bridge over the Deerfield River. Charles H. Keith, Greenfield, Mass., is interested.

CHARLESTOWN, MASS.—Local papers state that the Boston Elevated Ry Co. has completed plans for a car house and machine shop to be erected near Sullivan Square, in this city. The plans are for two buildings, of brick and stone, with steel frames, two stories high, covering an area of about an acre. The repair building, which will be divided into two sections, one for the repair of the elevated cars, the other for the surface cars, will be equipped.

WEST NEWTON, MASS.—F. G. L. Henderson, Supt., informs us that the Waltham, Weston & Wayland St. Ry. Co. has received no franchises, as recently reported.

WORCESTER, MASS.—It is reported that the People's Lake Line will be incorporated with $75,000 capital stock, to build an electric railway to the Shrewsbury side of Lake Quinsigamond. A power plant will be erected on the Worcester shore of the lake. The construction will probably be started early this spring. John W. Knibbs, Geo. A. Stevens and John J. Beaumont are interested.

BRANFORD, CONN.—The Connecticut Power & Construction Co., reported to have the contract for building the new electric road between this town and East Haven, will soon begin work to complete the line by May 20. A. W. Sperry, Engr., New Haven, Conn., is making surveys of the line, for which rails have been purchased.

WATERBURY, CONN.—The Connecticut Lighting & Power Co., New Haven and Derby, Conn., is reported to have started surveys for an electric railway from this place to Lake Compounce.

WOODBURY, CONN.—A. D. Weimer, Woodbury, writes us that the rights of way in Waterbury, Woodbury and Southbury, for the Woodbury & Southbury Electric Ry. Co., have been obtained and the capital for construction secured. The line will extend from Southbury to Waterbury, through smaller towns, about 16 miles. The contracts for construction will be let as soon as rights of way are secured in Middlebury and Watertown. Jas. Huntington, Pres., Woodbury.

NYACK, N. Y.—Local papers state that the Nyack Traction Co.'s electric railway in this city will be built this spring. Materials have been purchased. G. M. Boyd is interested.

NEW YORK, N. Y.—The Manhattan Ry. Co. has agreed to extend its east side lines from 177th St. to the Bronx Park at Bedford Station, as recommended by the State Railroad Commission on Jan. 8 (see issue of Jan. 18).——It is stated that the Third Ave. R. R. Co. will require about $5,000,000 for the new power house and $3,000,000 for the equipment of the Grand St. line.

SYRACUSE, N. Y.—The contract for the construction of the Syracuse, Skaneateles & Moravia Ry. Co. is reported to have been let. The contract includes the construction of a mile of elevated track on a steel structure from near Solvay to Geddes Sts. The company will make application to the State Railroad Commission for permission to build the road. Wing T. Parker, Pres.

TROY, N. Y.—Samuel Fister, of the firm of Foster, Kelly & Isenberg, Troy, informs us that the capital for preliminary survey for the proposed electric road from Troy to Williamstown, Mass., via Grafton and Petersburg, about 30 miles, has been secured, but the construction capital has not, and no contracts will be let until financial matters are settled.

HASBROUCK HEIGHTS, N. J.—A franchise has been granted to the Newark & Hackensack Traction Co. for an electric railway through the borough.

CHESTER, PA.—The Media, Middletown, Aston & Chester Electric Ry. Co. has been granted a franchise to build a street railway in this city on certain streets. F. W. Hammett, Pres.

DOYLESTOWN, PA.—Wm. C. Ryan, Secy., informs us that part of the rights of way for the Doylestown Ry. Co. have been secured, but no contracts have been let. The line will be electric, 11 miles in length, extending from Doylestown, Pa., to New Hope, Pa., by way of Centreville, Hailcong and other towns. Wm. Jenks Fell, Pres., 623 Bourse Bldg., Philadelphia.

OIL CITY, PA.—The Oil City Traction Co. is reported to have purchased the Franklin Electric Street Car line. This company, which was recently granted a franchise, will begin the construction of its line, which will be about 13 miles long.

PITTSBURG, PA.—The Pittsburg Southern St. Ry. Co. is reported to have been incorporated, with $12,000 capital stock, to build a railway. J. W. Smith, F. N. McCarthy, W. S. Hoagan and others of Pittsburg are the incorporators.——Press reports of Jan. 19 have stated that the Birmingham Traction Ry. Co. would let contracts aggregating $350,000 for the construction of its new line towards Castle Shannon and Mount Lebanon.

YORK, PA.—Application will be made on Feb. 2, according to reports, by the York Traction Co. for a charter to build a line through this city and other sections of York county. Wm. A. Himes, New Oxford, Pa., and Grier Hersh, York, are interested.

DOVER, DEL.—It is reported that bids are wanted by the Delaware General Electric Ry. Co., Dover, for furnishing 150,000 ties and 3,000 poles for the construction of its railway from Milford to Dover and thence to Woodland Beach, a distance of 35 miles. Work will begin in about two weeks and be completed within six months. Robert C. White, Attorney.

WILMINGTON, DEL.—Local papers of Jan. 10 reported that the contract for constructing the New Castle & Delaware City Electric Ry. Co.'s line was to be let about Jan 12, five bids having been received for the work.

ANNAPOLIS, MD.—The Washington, Mechanicsville, Leonardtown & Point Lookout Electric Ry. Co. has been incorporated, with $1,000,000 capital stock, to build an electric railway from Washington, through Prince George's, Charles and St. Mary's counties, to Point Lookout, at the mouth of the Potomac River. Frank R. Tenney, Philadelphia, Pa.; Giles F. Dyer and others are interested.

ELKTON, MD.—It is reported that an electric railway will be built between Elkton and Chesapeake City. The Chesapeake City Improvement Co., recently incorporated, with $400,000 capital stock, to erect an electric light plant, will build the road on the completion of the plant.

CLARKSBURG, W. VA.—F. B. Haymaker writes us that contracts for constructing the Clarksburg St. Ry., about 4 miles long, will be let early this spring. S. C. Denham, Pres.

ATLANTA, GA.—A charter has been granted to the Atlanta & Western Ry. & Power Co. to build an electric road from Atlanta to Marietta, by way of Austin and Douglasville. The necessary franchises for the line have been obtained, and it is proposed to begin the construction at once. The road will be about 40 miles in length. F. S. Monnett, Columbus, O., and W. J. Northen, Atlanta, are interested (see issue of Dec. 21).

BIRMINGHAM, ALA.—J. B. McClary, Gen. Mgr., writes us that Birmingham Ry. Electric Co., which at present is a dummy steam line, running from Birmingham to Powderly by way of Bessemer, 20 miles, will be equipped with electricity this spring. G. H. Harris, Ch. Engr., Birmingham; R. Jemison, Pres.

SELMA, ALA.—A franchise has been granted by the council to Woolsey Finnell and Manly Foster for an electric railway in this city. The work to be completed within one year, commencing at once. It is proposed to extend the line from this city to connect with the Montgomery division of the Mobile & Ohio R. R. at a point about 30 miles from Selma.

CHATTANOOGA, TENN.—The Chattanooga Rapid Transit Co.'s name has been changed to the Rapid Transit Co. of Chattanooga. It is proposed to issue about $300,000 in bonds to be used in building an extension to Lookout Mountain and other improvements and in purchasing equipment.

TOLEDO, O.—It is reported that the Toledo & Bay Point Electric Ry. Co. will build a mono-rail road to Bay Point, on Lake Erie, about nine miles from Toledo. F. A. Parke, Pres., Pittsburg.

LAFAYETTE, IND.—John H. Jack, 1028 Tip St., writes us that efforts are being made to have a company build an electric line between here and Frankford. Cheap water power, it is said, can be secured from the Wabash River. The persons who are promoting this line wish to correspond with engineers and capitalists who will undertake the construction and operation of the line. There are a number of factories in the towns, chief of which are the shops of the C., I. & L. Ry., employing 500 people. Mr. Jack also wants to correspond with engineers regarding a power plant.

RICHMOND, IND.—Right of way for an electric railway between this city and Eaton, O., about 16 miles, is reported to have been granted to Cleveland capitalists, who propose to connect it with the Dayton, Hamilton & Cincinnati Electric line. The road will be eventually extended to the center of Indiana's gas belt.

WABASH, IND.—The county commissioners have granted a franchise for constructing an interurban electric railway running north and south through the county, to A. H. Plummer, H. C. Pettit, and H. B. Shively.

MENOMINEE, MICH.—The construction of a street railway through this county is reported as being considered by capitalists of Menominee county. The road will cost about $200,000.

SAGINAW, MICH.—The Saginaw Southern Ry. Co. is reported to have been organized to build an electric railway from Saginaw to St. Charles and Chesaning, for which the franchises and rights of way have nearly all been secured. Work will probably be started this spring.

Henry B. Seaman, New York; Thomas H. Johnson, Pittsburg; Joseph Ramsey, Jr., St. Louis; Henry B. Richardson, New Orleans, and George A. Quinlan, Houston, Tex. Following the business session on Jan. 17, Mr. Wm. B. Parsons, M. Am. Soc. C. E., described, with the aid of steropticon views from photographs, the journey of 1,100 miles made by him and his associates in conducting the railway survey from Hankow to Canton, China. A description of this survey was published in our issue of June 15, 1899. In the evening a reception of the members and their families was held at the Society House, and on Jan. 18 an excursion by boat was taken to various points of interest on the water front of Manhattan Island. In the evening a paper on the "Boston South Terminal Railway Station" was read by Mr. Geo. B. Frances.

NEW PUBLICATIONS.

THE COLUMBIA ENGINEER.—Transactions of the Engineering Society of Columbia University, 1898-99. Address Geo. D. Orner, Business Manager, Columbia University, New York. Cloth, 9¾ x 6½ ins.; pp. 144; illustrated. $1.00 post-paid.

This volume contains the following lectures delivered during the year before the Engineering Society: Tunnels and the Present Long Island Railroad Proposition; G. Vipond Davies; The Influence of Mechanical Draft upon the Ultimate Efficiency of Steam Boilers, Walter B. Snow; The Baldwin's Park Experiments and the Evolution of the Automatic Gun, Hiram S. Maxim; The Work of the U. S. Signal Service during the War with Spain, G. F. Sever; Engineering Ideals, vs. Engineering Expedients, Cornelius C. Vermeule; The Hawkesbury Bridge, Charles Macdonald; The Hydraulics of the East Jersey Water Company, C. S. Aylmer-Small; Electrical Power Transmission and Distribution, Thos. Commerford Martin. These lectures are well illustrated, where illustration is possible.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

METAL FRAME WINDOW SCREENS.—The Higgin Mfg. Co., Newport, Ky. Paper; 5 x 8 ins.; pp. 46; illustrated.

POWER PUMPS.—I. B. Davis & Son, Hartford, Conn. Paper; 7 x 7 ins.; pp. 30; illustrated.

This catalogue is devoted to boiler and feed, gang, triplex power and quadruplex power pumps.

WATER FILTERS.—Norwood Engineering Co., Florence, Mass. Paper; 3 x 6 ins.; pp. 11; illustrated.

Gravity and pressure filters designed for domestic, industrial and city purposes are described here.

WELL TOOLS AND MACHINERY.—Williams Bros., Ithaca, N. Y. Paper; 8½ x 12 ins.; pp. 12; illustrated.

Complete steam and horse power well drilling plants are described in this catalogue; also various tools used in the business.

METAL CEILINGS.—The Berger Mfg. Co., Canton, O. Paper; 3½ x 6 ins.; pp. 16; illustrated.

This pamphlet illustrates a dozen of the different styles of stamped metal ceiling and wall coverings as made by this company.

FLUSH TANK SIPHON.—Walker Flush Tank Co., Kansas City, Mo. Paper; 5 x 8 ins.; pp. 16; illustrated.

This catalogue is devoted to a flush tank put in operation on the Pacific Coast in 1895, and used since in other parts of the country.

TANKS, TOWERS AND TUBS.—W. E. Caldwell Co., Louisville, Ky. Paper; 6 x 9 ins.; pp. 36; illustrated.

Circular and rectangular tanks of wood and steel, towers and a variety of tank fittings are described here and some useful tables are given.

ELEVATOR DOOR OPENER.—Winslow Bros. Co., Chicago, Ill. Paper; 6 x 9 ins.; pp. 12; illustrated.

In this arrangement the doors are opened by electric power, the elevator operator throwing the mechanism in gear by means of a foot lever or treadle.

WATER FILTER.—L. Driesbach & Co., 1407 N. Eighth St., Philadelphia. Paper; 4 x 6 ins.; pp. 4; illustrated.

This catalogue describes a closed filter in three vertical sections, the first contains quartz, the second a "clarifying compound" and the third, charcoal.

ELECTRIC VALVES.—The Engberg Electric Valve Mfg. Co., St. Joseph, Mich. One page circular; illustrated.

The valves described are used for controlling the flow of water from stand-pipes and reservoirs, distant valves being operated from pumping or fire stations.

FIRE HYDRANTS.—Norwood Engineering Co., Florence, Mass. Paper; 3 x 6 ins.; pp. 12; illustrated.

Holyoke and compression hydrants, independent gate hydrants with supplementary gates and adjustable hydrant wrenches are listed and priced in this catalogue.

VALVES, HYDRANTS, ETC.—The Fairbanks Co., New York, Boston, Pittsburg, etc. Limp cloth; pp. 248; illustrated.

A large variety of valves and cocks are included in this catalogue, together with injectors, traps, hydrants, service boxes and other supplies.

WELL PUMPS.—The Downie Pump Co., Downieville, Pa. Paper; 9 x 11 ins.; pp. 30; illustrated.

This catalogue describes single and double acting steam pumps, geared double pumps, double windmill pumps, gas and gasoline pumping engines and well supplies made by this company.

WINDOW VENTILATORS.—R. M. Pancoast, Pneumatic Engineer, Camden, N. J. Paper; 6 x 9 ins.; pp. 8; illustrated.

These attachments for admitting an upward current of air through windows open at the bottom without creating drafts, are adopted for car as well as house and other use.

VALVES, ETC.—Jenkins Bros., 71 John St., New York city. Paper; 8 x 5 ins.; pp. 68; illustrated.

All sorts of valves, for a variety of purposes, are listed in this catalogue; besides which there may be noted valve files, packings, damper regulators, pipe hangers, injectors and steam traps.

DUST GUARD FOR AXLE BOXES.—Harrison Dust Guard Co., Spitzer Building, Toledo, O. Paper; 9½ x 6 ins.; pp. 12; illustrated.

This appliance is in use on the cars of many leading railways, and it is to be noted that it is reported as in satisfactory use on the Goodwin steel dump cars, where it has to exclude an exceptional amount of dust.

TWIST DRILLS.—The Standard Tool Co., Cleveland, O. Paper; 6 x 9 ins.; pp. 80; illustrated.

A comprehensive book fully illustrating and describing the twist drills, reamers, chucks, spring cotters, taps, flat spring and riveted keys, milling cutters, special tools, etc., as made by this company. The book is well indexed and has a complete price list.

PASSENGER AND FREIGHT ELEVATORS.—Edmonds Elevator Co., 144 and 146 Champlain St., Cleveland, O. Paper; 7½ x 10¾ ins.; pp. 32; illustrated.

This circular describes the various styles of hydraulic and electric passenger and freight elevators built by this company; also worm gear belt elevators, hand elevators, hoists, etc. The book is well illustrated with half-tones and wood-cuts of the various elevators, elevator enclosures and operating machinery of the company's manufacture, and special illustrations are introduced showing the operating valves, slack cable device, etc. Full descriptions are given in every case, and there are tables giving the lifting capacity of belt electric freight and direct-connected electric elevators.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Jan. 25.	Bridge,	Hoboken, N. J.	Jan. 18
Jan. 26.	Stone,	New York, N. Y.	Jan. 18
Jan. 27.	Reservoir and conduit,	Gloversville, N. Y.	Jan. 11
	Advertised, Eng. News, Jan. 11 and 18.		
Jan. 29.	Pumping engines,	Cleveland, Ohio	Jan. 4
	Advertised, Eng. News, Jan. 4 to 18.		
Jan. 29.	Electric lights,	Litchfield, Ill.	Jan. 18
Jan. 29.	Railway construction,	St. Louis, Mo.	Jan. 18
Jan. 29.	Improving 2 streets,	East Chicago, Ind.	Jan. 18
Jan. 29.	Lighting contract	East Orange, N. J.	Jan. 18
	Advertised, Eng. News, Jan. 18 and 25.		
Jan. 29.	Asphalt,	St. Paul, Minn.	Jan. 25
Jan. 30.	Sewer pipe, cement, etc.,	New Haven, Conn.	Jan. 25
Jan. 30.	Grading railway (2 miles),	Bedford, O.	Jan. 25
	Advertised, Engineering News, Jan. 25.		
Jan. 30.	Breakwater,	Bar Harbor, Me.	Jan. 4
	Advertised, Eng. News, Jan. 4 to 25.		
Jan. 30.	Paving,	Cleveland, O.	Jan. 11
Jan. 31.	Bonds ($100,000),	Indianapolis, Ind.	Jan. 18
Jan. 31.	Water meters,	St. Paul, Minn.	Jan. 18
Jan. 30.	Street railway franchise,	Massillon, O.	Jan. 18
Jan. 31.	Building,	Madison, Wis.	Jan. 18
Jan. 31.	Electrical machinery,	Plymouth, England	Jan. 18
Jan. 31.	Shafts and tunnel,	Carnarvon, Wales	Jan. 18
Jan. 31.	Hospital building,	New York, N. Y.	Dec. 28
Jan. 31.	Masonry arch bridge,	Cleveland, O.	Jan. 25
Jan. 31.	Grading,	Roanoke, Va.	Jan. 25
Jan. 31.	Water system,	Houston, Tex.	Jan. 25
Jan. 31.	Sewers,	New York, N. Y.	Jan. 25
Jan. 31.	Borings, etc., for bridge,	New York, N.Y.	Jan. 25
	Advertised, Engineering News, Jan. 25.		
Jan. 31.	Water meters,	Albany, N. Y.	Jan. 25
Jan. 31.	School,	Welland, Ont.	Jan. 25
Feb. 1.	Artesian well,	Farmersville, Tex.	Jan. 25
Feb. 1.	Building,	Pelham, Ga.	Jan. 25
Feb. 1.	Sidewalks,	Baton Rouge, La.	Jan. 25
Feb. 1.	School building plans,	Toronto, Ont.	Nov. 30
Feb. 1.	Government building,	Boise, Idaho	Dec. 7
Feb. 1.	Lighting franchise,	Woodland, Cal.	Dec. 28
Feb. 1.	Pier extension,	South Haven, Mich.	Jan. 4
	Advertised, Eng. News, Jan. 4 to 25.		
Feb. 1.	Sole plates,	Cork, Ireland	Jan. 18
Feb. 1.	Fire houses,	Altoona, Pa.	Jan. 18
	Advertised, Engineering News, Jan. 18.		
Feb. 2.	Street bonds ($24,500),	Denver, Colo.	Jan. 18
Feb. 2.	Park work,	New York, N. Y.	Jan. 25
Feb. 5.	Flagging,	Orange, N. J.	Jan. 25
Feb. 5.	Artesian well,	Toledo, O.	Jan. 25
Feb. 5.	Office building,	Rustburg, Va.	Jan. 25
Feb. 5.	Sewer bonds,	Bloomfield, N. J.	Jan. 25
Feb. 5.	Lavatory,	Danville, Ill.	Jan. 25
Feb. 5.	Building road,	Missoula, Mont.	Jan. 18
Feb. 5.	Pipe and fittings,	Perth Amboy, N. J.	Jan. 18
Feb. 5.	Dredging, etc.,	Philadelphia, Pa.	Jan. 18
Feb. 5.	Improvement bonds,	Socorro, N. Mex.	Jan. 18
Feb. 6.	Bridge,	Oswego, Kan.	Jan. 18
Feb. 6.	City lighting,	St. Louis, Mo.	Jan. 18
Feb. 6.	School building,	Fremont, Neb.	Jan. 18
Feb. 6.	Roads,	Mount Holly, N. J.	Jan. 18
	Advertised, Eng. News, Jan. 18 and 25.		
Feb. 6.	Marble work,	Minneapolis, Minn.	Jan. 25
Feb. 6.	Water-works,	Ponca City, Okla.	Jan. 25
Feb. 7.	Water pipe franchise,	Chico, Cal.	Jan. 25
Feb. 7.	Steel bridge,	Vincennes, Ind.	Jan. 25
Feb. 7.	Grading, etc.,	Fairview, N. J.	Jan. 25
Feb. 7.	Paving blocks,	Winnipeg, Man.	Jan. 18
Feb. 7.	Street improvement,	Cincinnati, O.	Jan. 18
Feb. 7.	Bridge work,	Redlands, Cal.	Jan. 18
Feb. 7.	Metal work,	Charleston, S. C.	Jan. 11
Feb. 8.	Bridges,	Warrensburg, Mo.	Jan. 11
Feb. 8.	Interior decorating,	Milwaukee, Wis.	Jan. 11
Feb. 8.	Water-works,	Essex Junction, Vt.	Jan. 25
Feb. 9.	Boiler breeching,	Chicago, Ill.	Jan. 25
Feb. 9.	Sewers,	Martinsville, Ind.	Jan. 11
	Advertised, Engineering News, Jan. 11.		
Feb. 10.	Electric plant,	Monticello, Ark.	Jan. 11
	Advertised, Eng. News, Jan. 11 and 18.		
Feb. 10.	Water-works,	Monticello, Ark.	Jan. 11
	Advertised, Eng. News, Jan. 11 and 18.		
Feb. 10.	Electric wiring,	Norfolk, Va.	Jan. 11
Feb. 10.	Storehouse and sheds,	Buffalo, N. Y.	Jan. 11
	Advertised, Eng. News, Jan. 11 and 18.		
Feb. 10.	Cement,	Duluth, Minn.	Jan. 11
	Advertised, Eng. News, Jan. 11 to Feb. 1.		
Feb. 10.	Water pipe,	Bath, Me.	Jan. 18
	Advertised, Eng. News, Jan. 18 and 25.		
Feb. 10.	Bridge, double-draw span,	Alameda, Cal.	Jan. 18
Feb. 10.	School,	San Diego, Cal.	Jan. 18
Feb. 10.	Steam purifiers (6),	Chicago, Ill.	Jan. 25
Feb. 10.	Blacksmith shop, etc.,	Norfolk, Va.	Jan. 25
Feb. 12.	School,	Tomah, Wis.	Jan. 25
Feb. 12.	Dormitory etc.,	Pipestone, Minn.	Jan. 25
Feb. 12.	Pipe sewers,	Harrisonburg, Va.	Jan. 25
Feb. 12.	Water bonds ($150,000),	Lima, O.	Jan. 18
Feb. 12.	Sewers,	Oil City, Pa.	Jan. 18
Feb. 12.	Reservoir, etc.,	Todmorden, England	Jan. 18
Feb. 12.	Sewer bonds, etc., ($60,000),	Lima, O.	Jan. 18
Feb. 12.	Dredging,	Milford Haven, Va.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 8.		
Feb. 13.	Officers' quarters,	West Point, N. Y.	Jan. 18
Feb. 13.	Paving,	Chicago, Ill.	Jan. 25
Feb. 14.	Alms house,	Johnstown, N. Y.	Jan. 18
Feb. 14.	Bridge and abutments,	Des Moines, Ia.	Jan. 18
Feb. 15.	Guns, etc.,	Fort Mott, N. J.	Jan. 18
Feb. 15.	Light franchise,	Covington, Ky.	Jan. 18
Feb. 15.	Sewers and water-works,	Tampico, Mex.	Oct. 12
Feb. 15.	School furniture,	Havana, Cuba	Jan. 11
Feb. 15.	Lighting city (1 year),	York, Pa.	Jan. 11
Feb. 15.	Paving material,	Galveston, Tex.	Jan. 25
	Advertised, Eng. News, Jan. 25 and Feb. 1.		
Feb. 15.	Reservoir,	Wilkinsburg, Pa.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 8.		
Feb. 15.	Foundations,	Cleveland, O.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 8.		
Feb. 16.	Dredging,	Cleveland, O.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 8.		
Feb. 16.	Boom,	New Orleans, La.	Jan. 25
Feb. 17.	Sewers,	Wilkesbarre, Pa.	Jan. 25
Feb. 17.	Ammunition hoists,	New London, Conn.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 8.		
Feb. 17.	Machine shop,	Vallejo, Cal.	Jan. 18
Feb. 17.	Jetties,	Jacksonville, Fla.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 8.		
Feb. 19.	Water-works material,	Starkville, Miss.	Jan. 18
	Advertised, Eng. News, Jan. 18 and 25.		
Feb. 19.	Brick sewer,	Fort Wayne, Ind.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 8.		
Feb. 19.	School-house bonds,	Allegheny, Pa.	Jan. 25
Feb. 19.	Dredging,	New London, Conn.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 15.		
Feb. 19.	Paving,	Toledo, O	Jan. 25
Feb. 19.	Paving,	Newport News, Va.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 15.		
Feb. 20.	School building,	Gatesville, Tex.	Jan. 25
Feb. 20.	Sewer bonds,	Mingo Junction, O.	Jan. 25
Feb. 20.	Railway franchise,	Los Angeles, Cal.	Jan. 18
Feb. 21.	Bridge,	Chicago, Ill.	Jan. 18
Feb. 21.	Electric franchise,	Vallejo, Cal.	Jan. 11
Feb. 22.	Electric lighting plant,	Tarboro, N. C.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 8.		
Feb. 23.	Pier extensions,	Grand Rapids, Mich.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 15.		
Feb. 23.	Water pipe, castings, etc.,	Cincinnati, O.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 15.		
Feb. 24.	Steel bridge,	Hammond, La.	Jan. 18
Feb. 25.	Water-works, etc.,	Collinwood, O.	Jan. 25
Feb. 26.	Government building,	Topeka, Kan.	Jan. 11
Feb. 26.	Residence,	Sacramento, Cal.	Jan. 4
Feb. 27.	Mining lease,	St. Petersburg, Russia	Nov. 2
Feb. 28.	Railway (75 miles),	Matthews, Ind.	Nov. 23
Feb. 28.	Bridge,	Vancouver, B. C.	Jan. 18
Feb. 28.	Vessel,	Washington, D. C.	Jan. 25
Mar. 1.	Power building,	Indianapolis, Ind.	Jan. 25
Mar. 1.	Electric plant,	Gentry, Tenn.	Jan. 25
Mar. 1.	Electric machinery,	Melbourne, Victoria	Jan. 4
Mar. 1.	Plans municipal bldg.,	Walsall, England	Jan. 11
Mar. 1.	Water-works,	Ada, Minn.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 1.		
Mar. 1.	Court house,	Blue Ridge, Ga.	Jan. 18
Mar. 1.	Electric plant,	Ada, Minn.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 1.		
Mar. 5.	Dwelling, etc.,	Buffalo, N. Y.	Jan. 18
	Advertised, Eng. News, Jan. 18 to Feb. 8.		
Mar. 5.	Steel bridge,	Scranton, Miss.	Jan. 25
Mar. 9.	Pumping engines (4),	Cincinnati, O.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Mar. 1.		
Mar. 10.	Railway,	St. Michaels, Azores.	Jan. 11
Mar. 12.	Plans for hall,	Belfast, Ireland	Nov. 23
Mar. 12.	Jail,	Alexandria, Minn.	Jan. 25
Mar. 13.	Trunk sewer,	Roswell, N. Mex.	Jan. 25
	Advertised, Eng. News, Jan. 25 to Feb. 22.		
Mar. 23.	Bridge,	Lorenzo Marquez, So. Africa	Dec. 14
Mar. 31.	Plans for police station,	Chelmsford, Eng.	Jan. 18
Aug. 1.	Plans for bridge,	Sydney, N. S. W.	Jan. 18
No date.	Electric apparatus,	St. Louis, Mich.	Jan. 18
"	Electric plant,	Beira, Portuguese E Africa	Jan. 18
"	Piling for gas plant,	Newark, N. J.	Jan. 18
	Advertised, Engineering News, Jan. 18.		
"	Bridge (Howe truss),	Harlem, Mont.	Jan. 18
No date.	Ties and poles,	Dover, Del.	Jan. 25

NOTICE TO READERS.—Although every possible effort is made to verify the reports of new construction before their publication in these columns, complete verification is not always possible. When it becomes necessary to publish news whose accuracy has not been verified, the words "according to reports," "it is stated," or other expressions of similar import are attached to the item. We will be obliged to our readers if they will send us prompt reports of any work in which they may be interested, and also to call our attention to any important errors that may be noticed in these columns, and give us the correct details. When writing to persons and companies mentioned in this department, our readers will confer a favor by mentioning Engineering News as the source of their information. We also ask that newspapers using information taken from this department give due credit to this journal.

RAILWAYS.

ALABAMA & FLORIDA.—E. L. Mere, Pres., River Falls, Ala., wrote us Jan. 18 that the bids for constructing the extension of this line from Andalusia through Cross Trails and Geneva, Ala., about 45 miles, were all in and the contract wiuld be let in a day or so. John Marston, Jr., Andalusia, Ala. (We noted this project in our issue of Oct. 19.)

BARCLAY.—O. A. Baldwin, Gen. Mgr., Towanda, Pa., writes us that the report in our issue of Jan. 18, that this company was making surveys for a line from Susquehanna, Pa., to Binghamton, N. Y., was erroneous. Mr. Baldwin states that preliminary surveys have been made of a route from Towanda, Pa., to Binghamton, N. Y., but that nothing further will be done until spring. H. C. Davis, Pres., 204 Walnut Place, Philadelphia; C. H. Davis, Ch. Engr., 99 Cedar St., New York.

BOSTON & MAINE.—It is reported that this company has decided to expend $200,000 in the improvement of its passenger and freight service at Lowell, Mass. H. Bissell, Ch. Engr., Boston, Mass.

BOWLING GREEN.—We are informed that an extension of this line 1½ miles will be built as soon as the grade crossing suit is decided. J. H. Wilkerson, Pres.; H. D. Fitch, Ch. Engr., Bowling Green, Ky.

BURLINGTON, CEDAR RAPIDS & NORTHERN.—H. F. White, Ch. Engr., Cedar Rapids, Ia., informs us that the survey of the route of this line from Germania, Ia., to Albert Lea, Minn., 44 miles, has been completed, but no right of way has been obtained. C. J. Ives, Pres., Cedar Rapids, Ia.

COLUMBIA & CORILLO.—Reports from California state that this company was recently incorporated with $300,000, to build a road 90 miles long from a point in Garfield county to either Dayton in Columbia county, or Waitsburg in Walla Walla county, Wash.

det, 132 Nassau St., for a seven-story brick flat at Riverside Drive and 115th St., to cost about $225,000; Geo. Keister, Arch., 140 W. 34th St.; by R. P. Ritterbusch, owner and Arch., 11 Broadway, for an eight-story loft building at Bleecker and Wooster Sts., to cost about $65,000; by A. H. Olsen, 1799 Fox St., for a nine-story loft building at 26 E. 22d St., to cost about $150,000, John Woolley, Arch., 111 5th Ave.; by J. J. McCaffery, 412 E. 52d St., for an eight-story brick factory at 10 E. 18th St., to cost about $160,000; Henri Fouchaux, Arch., 162d St. and Broadway.

NEW YORK, N. Y.—The following bids were received Jan. 15 for removing the buildings on the Bowling Green site of the new custom house: J. K. Taylor, Supr. Arch., Washington: (1) being the amount to be paid by the contractor to the government, (2) being the amount paid the contractor by the government: Robt. Waddington & Son, Hoboken, N. J., (1) $25,000, time 90 days; R. H. Hood & Co., New York, (1) $24,370, time 90 days; E. J. McKeever, Brooklyn, (1) $9,500, time 85 days; F. W. Seagrist, Jr., Co., 204 Ave. B, New York, (2) $5,227, time 85 days; C. H. Southard, 59 9th Ave., New York, $3,536, time 90 days.

NEW YORK, N. Y.—The following bids were received by the Department of Charities Jan. 22 for installing one passenger elevator and two dumbwaiters in the Metropolitan Hospital, Blackwell's Island: Albert Dinternitz, 313 E. 71st St., $7,445; Hartmann & Horgan, 287 4th Ave., $7,550; Williams & Gerstle, $7,900; Mahony Bros., 52 New Bowery, $8,160; also for alterations to the City Hospital building, Blackwell's Island: James E. Fahy, 525 Amsterdam Ave., $2,985; Albert Winternitz, $3,379; P. K. Lantry, 206 E. 50th St., $3,500; Mahony Bros., $3,679.

RYE, N. Y.—It is stated that Bruce Price, 1133 Broadway, New York, has prepared plans for a building for the Marian Osborne Home for Women, at Presidential park, to cost about $500,000. J. W. Sterling, Executor, 44 Wall St., New York.

SYRACUSE, N. Y.—C. E. Colton, 513 Kirk Bldg., has prepared plans for a city hall building to cost about $100,000.

TOTTENVILLE, N. Y.—The board has accepted the bid of Philip Wolff & Son for erecting the new school house, at $36,946.

UTICA, N. Y.—The plans prepared by G. E. Cooper, 236 Genessee St., for a new school house in East Utica, to cost about $30,000, have been accepted by the board.

EAST ORANGE, N. J.—The council has accepted Andrew Carnegie's offer of $50,000 for a library building.

NEWARK, N. J.—It has been decided to issue $750,000 in bonds for erecting a new city hall.

ALLEGHENY, PA.—Bids are asked until Feb. 19, for the purchase of $100,000 of school bonds.——Bids will soon be asked for erecting the high school building, to cost about $10,000. G. W. Gerwig, Secy. Bd. Controllers, P. O. Box 77.

BRADDOCK, PA.—Rev. John Hickey, of St. Thomas' Church, is said to be having plans prepared for a home for women, to cost about $100,000.

CONNELLSVILLE, PA.—J. C. Fulton, Uniontown, Pa., is preparing plans for a public building for this city.

OIL CITY, PA.—Andrew Carnegie has offered $50,000 for erecting a public library.

PITTSBURG, PA.—A new school building will be erected at Howe St. and McCandless Ave., to cost about $80,000. It is stated that the Pittsburg Federation of Churches will erect two tenements, to cost about $500,000; Rev. E. H. Ward, St. Peter's P. E. Church, and Rev. J. T. McCrory, 3d Presbyterian Church, are on the committee.

UNIONTOWN, PA.—The Second National Bank will erect an office building at Main St. and Broadway, to cost about $100,000, according to reports.

YORK, PA.—Andrew Carnegie has offered the city $50,000 for a new library building. Frank Geise, Mayor.

BALTIMORE, MD.—The contract for erecting the fourteen-story office building for the Continental Trust Co., to cost about $1,000,000, has been let to Charles McCaul, 10 N. 11th St., Philadelphia.

WASHINGTON, D. C.—J. G. Hill, 47 Corcoran Bldg., is preparing plans for an addition to Howe Building, on F St. near 14th St., C. C. Willard, Owner. It is stated that Mr. Willard will enlarge the Ebbitt House.

WASHINGTON, D. C.—The following bids were received by the bureau of yards and docks, navy department, Jan. 13, for constructing a building for shops and offices at the navy yard; (1) being for building complete; (2) same as No. 1, omitting bays 10 and 11 and south gable end; (3) same as No. 1, omitting bays 9, 10 and 11 and south gable end; (4) same as No. 1, omitting bays 8, 9, 10 and 11 and south gable end; (5) same as No. 4, omitting third floor of shop wing; (6) same as No. 1, stone to be furnished by government; (7) price to be added to bid on No. 1 for making windows and doors fireproof; (8) state kind of fireproofing to be used; (9) same as No. 1, except that for all partitions with wood studs are substituted fireproof partitions; contract let to Snare & Triest on item No. 3:

LOUISVILLE, KY.—Andrew Carnegie has offered $125,000 for a new public library building.

CLEVELAND, O.—The trustees of the Cleveland Museum of Art have decided to erect a building, to cost about $1,000,000. H. C. Ranney, Pres., and J. M. Jones, Vice Pres., are on the building committee.

CLEVELAND, O.—Bids are asked until Feb. 15 for building the foundations of several buildings described in our advertising columns. W. P. Rice, Dir. Pub. Wks.

TOLEDO, O.—The Toledo & Bay Point Electric Railway Co. proposes to build a summer hotel and theatre, to cost about $250,000. F. A. Parke, Pres., Pittsburgh; H. S. Landis, Sec. and Treas.

CHICAGO, ILL.—A theatre, to cost about $250,000, will be built on Jackson Boulevard. W. J. Davis and Al Hayman, Mgrs.

DANVILLE, ILL.—Bids are asked until Feb. 5 for erecting a lavatory for the N. H. D. V. S. W. B. Franklin, Pres. Bd. Mgrs.

MOLINE, ILL.—The Moline Plow Co. will erect an eight-story warehouse at 14th St. and 3d Ave., to cost about $100,000.

HUDSON, WIS.—M. Herrick, Cy. Clk., writes us that the county has sold $50,000 in bonds and obtained plans for a new courthouse, sheriff's residence and jail.

TOMAH, WIS.—Bids are asked until Feb. 12 for constructing the Tomah Indian School. W. A. Jones, Indian Comr.

DES MOINES, IA.—Hallett & Rawson have prepared plans for a four-story hotel at 6th Ave. and State St., for M. Storer, to cost about $50,000.

ALEXANDRIA, MINN.—Bids are asked, according to reports, until March 12, for constructing a county jail. E. P. Wright, County Audr.

LUVERNE, MINN.—The commissioners have decided to build a new jail.

MINNEAPOLIS, MINN.—Bids are asked by the construction committee until Feb. 6 for marble work on the court house. Long & Kees.

PIPESTONE, MINN.—Bids are asked until Feb. 12 for constructing a dormitory and a mess hall at the Indian School. W. A. Jones, Indian Comr.

WINONA, MINN.—Chas. Horton is said to be interested in the new Lumber and Grain Exchange Building to be built at a cost of about $50,000.

GATESVILLE, TEX.—Bids are asked until Feb. 20 for erecting a two-story 10-room school house. J. E. Walker, Mayor.

MOULTON, TEX.—Bids are asked by the First National Bank, Flatonia, until Jan. 27 for erecting a bank building at Moulton.

CANYON CITY, COLO.—The First Presbyterian Church will erect a new church building, to cost about $30,000. Rev. H. N. Stilson, Pastor, F. A. Reynolds and S. P. Dale are on the building committee.

HELENA, MONT.—The following bids were received Jan. 19 by the Supervising Architect, Washington, for constructing, except heating apparatus, elevator and electric-wiring conduits of the U. S. Building: F. J. Melbourn, Canton, O., $278,242, sandstone $238,102, 520 days; Amberg Granite Co., Chicago, $299,900, 20 months; Butler-Ryan Co., Globe Bldg., St. Paul, $324,850, Indiana stone $261,376, Minn. granite $259,098, 20 months; Henry Freze, Milwaukee, Wis., Minn. granite $267,800, Spokane granite $280,765, Portland granite $291,823, Washington State sandstone $247,725, 20 months; L. L. Leach & Son, 1402 Marquette Bldg., Chicago, $283,000, sandstone $248,500, 20 months; Montana Bldg. Co., Helena, $340,702, sandstone $295,702, 20 months.

SEATTLE, WASH.—W. L. Smith, Syracuse, N. Y., will erect a four-story brick block at 312 to 322 Occidental St., to cost about $65,000.

LOS ANGELES, CAL.—The Los Angeles Pacific R. R. Co. will, it is stated, erect a four-story depot and office building on 4th St., to cost about $40,000.

SAN FRANCISCO, CAL.—G. W. Percy, 532 Market St., has prepared plans for the Hayward Building, at Montgomery and California Sts., to cost about $400,000.

MONTMAGNY, QUE.—David Ouellet, 117 Rue St. Jean, H. V., Quebec, has prepared plans for alterations to the Church of St. Thomas, to cost about $55,000.

MONTREAL, QUE.—The contract for constructing the grain elevators for the Connor's Syndicate has been let to the Barnet & Record Co., The Rookery, Chicago.

ST. JOSEPH, DE BLAUCE, QUE.—David Ouellet has prepared plans for a new church, to cost about $65,000.

DUBLIN, ONT.—Bids are asked until Jan. 31 for erecting a church at Dublin, Ont. Rev. Father Fogarty, pastor. Moore & Henry, Archs., London, Ont.

WELLAND, ONT.—Bids are asked until Jan. 31 for erecting a public school. John McCaw, Secy. School Board.

PEABODY, MASS.—A. N. Jacobs, Supt., writes us that the town has appropriated $15,000 for laying a main at the lower level from the source of supply than the present one. F. A. Snow, Brookline, Mass., is the contractor.

WORCESTER, MASS.—F. A. McClure, Cy. Engr., has made surveys for two storage basins on Kettle Brook, for improving the water supply.

ALBANY, N. Y.—The Castleton Water-Works Co. has applied for permission to furnish Rensselaer with water. It is stated that it is proposed to commence proceedings to annul the charter of the East Albany Water-Works Co., now supplying Rensselaer.

ALBANY, N. Y.—Bids are asked until Jan 31 for furnishing meters and parts of meters to the Bureau of Water. I. Wachsman, Clk. Bd. Contract.

CHITTENANGO, N. Y.—It is proposed to build a plant and water-works. E. Delevan Smalley, Engr., Utica and Syracuse, N. Y.

FULTON, N. Y.—The question of the city purchasing the works of the Fulton Water-Works Co. for $115,000 is again being considered.

GENEVA, N. Y.—Edward Seybolt, Supt. Pub. Wks., has recommended the construction of the proposed new reservoir at once. Plans have already been prepared.

SINCLAIRVILLE, N. Y.—A. P. Chessman, Pres., writes us that the village has sold its bonds to a New York party, the proceeds to be used for the purchase of the works owned by the Binghamton Trust Co., Binghamton, N. Y. It is proposed to improve the works in the spring.

TARRYTOWN, N. Y.—Work has been begun on the proposed private reservoir to be built for J. D. Rockefeller at a cost of $50,000. The city has asked Mr. Rockefeller to supply it with water.

JERSEY CITY, N. J.—An election will be held Feb. 13 to vote on the question whether the city shall purchase the works of 50,000,000 gallons of water a day for $7,595,000.

NEW EGYPT, N. J.—Wm. Chambers writes us that nothing will be done towards putting in works until May 1; population, 1,000. L. E. Foulks, Des. Engr.

SEABRIGHT, N. J.—The Tintern Manor Water Co. has applied for a franchise to furnish this place with water. Jas. Steen, Eatontown, N. J., may be addressed.

ALTOONA, PA.—The Allegheny Mountain Water Co. has been incorporated with a capital stock of $25,000, by H. K. McCauley, of Altoona; J. Fulton, of Johnstown.

MAUCH CHUNK, PA.—Geo. Ruddle writes us that preparations have not yet been made for constructing works for the Nesquehoning Water Supply Co., recently incorporated with a capital stock of $5,000.

PHILADELPHIA, PA.—The Mayor expects that work on improving the water-works will begin in April. The Mayor will have full authority in the matter of spending the $15,000,000 to be used for the improvements. Address Councilman Leeds, Chn. Com.——The Dunbar Water Supply Co. has been incorporated with a capital stock of $5,000 by J. McMullen, J. N. Shimer and W. Drost.

WILKINSBURG, PA.—Bids are asked by the Pennsylvania Water Co., 701 Wood St., until Feb. 15 for constructing a 10,000,000-gallon reservoir, as stated in our advertising columns. Jas. H. Harlow, Pres. and Engr.

HANCOCK, MD.—E. P. Cohill writes us that nothing has been done in the matter of works. There is a good opening for a complete plant. Population, 1,000.

GASTONIA, N. C.—Moore & McCreary, Atlanta, Ga., are reported to have been awarded the contracts for sewers, electric lights and water-works, to cost about $65,000. Henry R. Worthington, New York, will furnish the engines. J. L. Ludlow, Engr., Winston, N. C.

ATHENS, GA.—The question of laying a new water main to the standpipe is reported as being under consideration.

DOUGLAS, GA.—The question of issuing bonds for works will soon be voted upon, according to reports. Address Mayor McDonald.

SHEFFIELD, ALA.—Information for new works is wanted at once, according to reports; population 2,700. A. Goldman, Secy. Com.

BLOOMDALE, O.—The Baltimore & Ohio R. R. Co., it is stated, proposes to build a reservoir at this place.

CINCINNATI, O.—Bids are asked Feb. 23 for furnishing cast-iron pipe and special castings for settling reservoirs on the water-works grounds, near California, O., and until March 9 for furnishing four pumping engines, each with a capacity of 30,000,000 gallons, as described in our advertising columns. Aug. Herrmann, Pres. Bd. Trustees Water Comrs.——Superintendent Boch, of the water-works, is urging the spending of about $1,000,000 for supplying water to Walnut Hills.

COLLINWOOD, O.—A. J. Thieman, Chn. Light and Water Com., writes us that bids will probably be wanted until about Feb. 25 for about 2¼ miles of 12-in. and a half mile of 8-in. water pipe. The laterals will be advertised for later. The water supply will be secured from the Cleveland works. E. P. Roberts, Engr., Cleveland, O.

Bids Received at Washington, D. C., Jan. 13, 1900, for Construction of Buildings at the Navy Yard.

Bidder.	No. of items. 1.	2.	3.	4.	5.	6.	7.	8.	9.
Columbus Thomas, Washington, D. C.	$145,351	$133,098	$126,448	$120,098	$97,000	$104,000	.....	Hollow terra cotta.	$2,000†
Samuel J. Prescott & Co., Washington, D. C.	117,965	104,661	98,795	92,993	82,565	113,965	$250†	Roebling or Columbia.	117,965
Hoffman Engineering & Contracting Co., Philadelphia, Pa.	145,000	127,000	120,000	113,000	98,900	135,000	145,000	Keystone	146,700
Meads & Reynolds, Washington, D. C.	139,683	121,900	115,100	107,900	96,900	134,183	200†	Exp. metl & cndr conc.	190†
Penn Bridge Co., Beaver Falls, Pa.	121,147	108,000	101,000	97,300	89,840	113,800	300†	Expanded metal.	121,350
R. A. Griefenhagen, 92 La Salle St., Chicago, Ill.	111,580	95,980	90,290	84,680	76,270	106,580	111,270	Roebling.	110,840
Snare & Triest, 39 Cortlandt St., New York, N. Y.	.....	86,726	81,726	77,726	65,726	95,200	150†	Expanded metal.	97,726
L. P. Hazen & Co., 809 Broadway, Cincinnati, O.	120,500	105,500	99,500	.....	.....	.....	.....	.....	.....
Louis Wechsler, St. James Bldg., New York, N. Y.	140,000	128,000	120,000	115,000	97,900	136,000	300†	Roebling.	140,000
Macy, Henderson & Co., 1215 Filbert St., Philadelphia	140,900	124,000	118,370	111,200	98,277	7,700*	110†	.....	450†
L. L. Leach & Son, Marquette Bldg., Chicago	118,370	102,920	96,585	90,385	82,416	112,370	350†	Expanded metal.	118,370
Grant Wilkins, Atlanta, Ga.	119,000	104,000	97,600	91,100	.....	115,000	320†	Expanded metal.	119,000
Structural Iron Co., Baltimore, Md.	121,193	106,314	98,900	94,212	85,320	116,737	80†	.....	850†
Richardson & Burgess, Washington, D. C.	119,820	105,514	99,076	93,217	83,584	115,815	75†	Roebling.	120,639

*To be deducted. †To be added.

WASHINGTON, D. C.—Bids are asked until Jan. 27 for constructing a truck house on S St. near 34th St., N. W. J. W. Ross, District Comr.

NORFOLK, VA.—Bids are asked until Feb. 10 for erecting a building 82 x 191 ft. at the navy yard. N. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

RUSTBURG, VA.—Bids are asked until Feb. 5 for building an office building. A. N. Pierce, Chn. Bd. County Supervisors.

WINCHESTER, VA.—The plans of F. H. Jackson, 1419 G St., N. W., Washington, for a three-story city hall building, to cost about $50,000, have been accepted.

ROME, GA.—The Southern Ry. will erect a freight depot at E. 2d St. and 2d Ave., to cost about $100,000. J. H. Barrett, Gen. Supt., Washington, D. C.

SELMA, ALA.—The county commissioners have let the contract for a new court house to J. W. Hood & Co., Montgomery, at $37,900.

DAWSON, YUKON DISTRICT, CAN.—The business section of this city was destroyed by fire Jan. 10; reported loss about $500,000.

WATER-WORKS.

FAIRFIELD, ME.—V. R. Connors writes us that construction on the works for the Kennebec Water District will be resumed in the spring.

ESSEX JUNCTION, VT.—Bids for building the proposed works, it is stated, will be wanted about Feb. 8; estimated cost about $25,000. J. S. Reynolds, Chn. Com.

GLOUCESTER, MASS.—The Mayor has appointed Aldermen Sleep, Knowles and Allen a committee to employ a resident engineer, and to consider the matter of an increased water supply. C. C. Cressy, Water Comr.

SPENCER, MASS.—A. W. Curtis, Town Clk., writes us that nothing in the matter of improving the works will be done before April 1.

GENEVA, O.—R. E. Ewing, Clk., writes us that the question of securing a supply by drilling wells.

PIQUA, O.—W. B. Mitchell, Secy., writes us that the trustees have secured water from wells for a better supply, but the question of utilizing it has not been settled; population, 15,000. W. F. Robbins, Supt.

TOLEDO, O.—Bids are asked until Feb. 5 for sinking an artesian well. W. O. Holst, Cy. Clk.

LINTON, IND.—A. G. Beasley, Pres. Town Bd., writes us that this place needs works, but the town is not financially able to build the works. It would pay hydrant rental and grant a franchise to a firm.

DETROIT, MICH.—J. M. McGrath, of the water board, writes us it is proposed to construct two new pumping engines and to extend the 42-in. main about five miles. The engines will be contracted for, but the pipe will be purchased and laid by the city.

DANVILLE, ILL.—H. B. Walter, Ch. Engr., writes us that preliminary surveys are being made for the Danville, Paxton & Northern R. R., which will extend through Paris, Georgetown, Danville, Potomac, Paxton and Kankakee, about 125 miles. A. C. Daniel, Pres.; H. B. Walter, Ch. Engr., Danville, Ill.

DEKALB, ILL.—The council has granted a franchise to the Sycamore & DeKalb Electric Ry. Co. to build an electric road. Work is to commence at once.

WAUKEGAN, ILL.—Reports state that an electric line from Lake Michigan to Fox Lake, starting at Waukegan, is proposed. W. F. Dimmick has made an inspection of the proposed route to ascertain the cost and feasibility of the project. It is estimated to cost $300,000. The company that is agitating the scheme will build this spring on its own right of way.

ST. LOUIS, MO.—The St. Louis County Court has granted a franchise to the St. Louis County Transit Co. to build an electric road from St. Louis and Clayton to Des Peres and Manchester.

SEATTLE, WASH.—The organization of the Seattle Electric Co., with $6,500,000, is said to be in its early stages. Petitions for a consolidated franchise for street railways covering a period of 40 years have already been made.

QUEENSTON, ONT.—An electric railway from Queenston to St. Catharines is proposed, acording to reports. The road will run along the stone road via St. Davids and Homer to St. Catharines, and possibly to Port Dalhousie, and will connect with the Niagara Falls Park & River Ry. at Queenston. The Welland canal power will be used. The company, which is composed of local and Toronto capitalists, expects to have the road in operation by July 12.

ELECTRIC LIGHT AND POWER.

GLOUCESTER, N. H.—G. E. Merchant, Mayor, writes us that a special committee of the council has been appointed to consider the question of municipal ownership of a plant.

RYE, N. H.—The Boston & Maine R. R. will erect a power house here to cost about $40,000, according to report. H. Bissell, Ch. Engr., Boston, Mass.

BENNINGTON, VT.—The Bennington & Hoosick Valley Electric Ry Co. will erect a power house, 50 × 100 ft., equipped with two 300-HP. Heine boilers and a Westinghouse generator.

SOUTH NORWALK, CONN.—J. R. Taylor, Cy. Clk., informs us that no definite action has been taken towards the municipal plant.

CHITTENANGO, N. Y.—E. D. Smalley, Civil Engr., Utica, is reported to have made inspections of this place with a view to obtaining estimates for water-works and a light plant.

GREAT BEND, N. Y.—The Black River Traction Co. has purchased 35 acres of land near here and will erect a power station.

JAMESTOWN, N. Y.—Alderman Hulquist, James Varley and others have been appointed a committee by Mayor Cooper to ascertain the price at which the city can purchase the private plant.

NEW BRIGHTON, N. J.—The New Brighton Electric Light & Power Co. has applied for a franchise. William Irving writes us that nothing will be done until it is granted.

TROY, N. Y.—The Hudson River Water Power Co. has been granted permission to erect a dam near Palmer's Falls.

ASBURY PARK, N. J.—The establishment of a new plant in this place is proposed. It will be equipped with three dynamos of 70 lights capacity; one additional boiler of 200 HP. will also be required, in addition to the building, which will be brick and iron. Estimated cost, $25,000.

CONEMAUGH, PA.—The question of issuing $25,000 in bonds for an electric plant and sewers will be voted on Feb. 20.

MALVERN, PA.—The question of building a plant is being discussed, according to reports.

NEW WILMINGTON, PA.—The question of a municipal plant will be voted on Feb. 20.

CHESAPEAKE CITY, MD.—Reports state that the question of a municipal plant is being discussed, and that a committee has been appointed to look into the matter.

NORFOLK, VA.—Norfolk Heat, Light & Power Co. and the Electric Co. of Norfolk have applied for franchises. A committee has been appointed to examine the applications. Tazewell Taylor, Chn. Com.

GASTONIA, N. C.—The contracts for an electric light plant, water-works and sewers are said to have been let to Moore & McCreary, of Atlanta, Ga., at about $65,000. J. L. Ludlow, Engr., Winston, N. C.

TARBORO, N. C.—Bids are asked by the board of public works until Feb. 22 for installing a complete plant, embracing 35 1,200-c. p. d.-c. enclosed arc and 1,000 16-c. p. a.-c. incandescent lamps, as stated in our advertising columns.

ANDERSON, S. C.—It is stated that the Catawba Power Co. will build a dam at Indian Hook Shoals to develop about 4,000 HP., to be transmitted to Rock Hill and Fort Mill. Address W. C. Whitner.

COLUMBUS, GA.—L. H. Chappell, Mayor, writes us that the question of municipal ownership of a plant is being considered, but no plans have been prepared.

ABBEVILLE, LA.—Reports state that a company will be formed by James Maxwell and Wagner Porter, to build a plant.

JENNINGS, LA.—F. S. Stearnes is reported to have received a franchise for a plant.

GENTRY, TENN.—Bids are asked until March 1 for constructing a plant, operated by steam, to cost about $3,000. A. B. Johnson, Owner; W. A. Jared may be addressed.

MORRISTOWN, TENN.—R. McFarland, Mayor, writes us that a plant with a capacity of 500 arc lights 2,000-c. p. and 1,500 16-c. p. incandescent lights, to cost about $12,000, is being erected, and the machinery is all bought.

NASHVILLE, TENN.—Councilman J. T. Bumpous has introduced a bill providing for the erection of a municipal plant. The legislature has given the city authority to issue $150,000 in bonds for that purpose.

TATE SPRINGS, TENN.—Thos. Tomlinson writes us that the contract for 20 arc and 700 incandescent lights has been let to the Knoxville Electric Co., of Knoxville.

GRAYSON, KY.—An election will be held on Jan. 23 to vote on the question of issuing $3,000 in bonds for a plant.

NICHOLASVILLE, KY.—S. D. Young, Supt. Streets, writes us that the council has taken no action on electric light. E. S. Ranie, Cy Clk.

OWENSBORO, KY.—The question of erecting a municipal plant to cost about $35,000 is being discussed.

BATAVIA, O.—G. H. Kain, Village Clk., writes us that the question of issuing $12,000 of additional bonds to complete the proposed water-works and electric light plant will be voted on Feb. 3.

COLLINWOOD, O.—A. J. Sherman, Chn. Light and Water, writes us that bids will be received about Feb. 25 for a plant to supply enclosed arc and 1,500 incandescent lamps, to be finished by July 1. E. P. Roberts, Engr., Cleveland.

ANDERSON, IND.—M. M. Dunlap, Mayor, writes us that the plant will be enlarged this spring. T. J. Nichol, Chn. Com.

RICHMOND, IND.—It is stated that the committee has submitted its report on the question of a municipal plant.

HOWARD CITY, MICH.—M. W. Baker, Deputy Clk., writes us that no contracts will be let at present for the proposed plant.

IRON RIVER, MICH.—Wm. R. Hopkins, Pres., writes us that the city has voted to postpone the erection of a plant.

NILES, MICH.—It is proposed to construct a dam, the power to be used for electric railway purposes, at Berriem Springs, for which $10,000 will be paid the privilege.

BELVIDERE, ILL.—The Belvidere Light, Heat & Power Co. has been purchased by A. T. Stahl, who proposes to enlarge the plant. Population, 10,000.

CHICAGO, ILL.—Local papers state that a company is being formed, to be capitalized at $500,000, to operate a lighting system between Evanston and Waukegan, including a territory of 27 miles along the lake shore and 12 towns. It is reported that the Waukegan Electric Light Co., the Highland Park Electric Light Co. and the Evanston Electric Illuminating Co. will be incorporated under one name, forming the proposed company. C. H. Hussey, Gen. Mgr., Waukegan Electric Light Co., Waukegan, Ill., and E. G. Cowdery, Mgr., Milwaukee Gas Light & Coal Co., Milwaukee, Wis., are interested.

EVANSTON, ILL.—The question of a municipal plant is being discussed, according to reports.

LA CROSSE, WIS.—It is reported that the proposition to construct a municipal plant was carried at a recent election. The work will be begun at once.

SHEBOYGAN, WIS.—We are informed that the Sheboygan Light, Power & Ry Co. will erect a power house in the spring, to supply 250 2,000-c. p. arc lights and 12,000 16-c. p. incandescent lights.

MANCHESTER, IA.—M. G. LeRoy, Pres. of the Manchester Light, Heat & Power Co., writes us that estimates for a plant are being prepared, orders for material will soon be placed.

CALDWELL, KAN.—It is stated that the question of issuing $25,000 in bonds to purchase the water-works and erect a plant will soon be voted on. S. T. Tuttle is interested.

WEBB CITY, MO.—The question of building a plant is being discussed. C. E. Matthews, A. G. Carter are reported to be interested.

FT. WORTH, TEX.—It is stated that the county will erect a water-works and a plant for the courthouse and jail.

HELENA, MONT.—This city voted Jan. 18 in favor of issuing $30,000 in bonds for a municipal plant, and $600,000 for water-works.

DENVER, COLO.—For information concerning the proposed electric plant for Denver, see the letter from Mayor Johnson's secretary under Water-Works.

STOCKTON, CAL.—I. H. Robinson, Cy. Clk., writes us that no intention has as yet been declared for the city to own the water-works or electric plant.

POCATELLO, IDAHO.—The question of erecting a plant at American Falls, near here, is being discussed.

MORRISBURG, ONT.—Consular reports state that the council has obtained lease from the government for 25 years of 250 HP., to be used for development of electric power for manufacturing industries, furnishing light for streets, houses, etc. This development will cost about $30,000, as estimated by the hydraulic engineer in charge. This power can and will be materially increased as necessities may require. The council is using every means to get manufacturers to establish here, offering free water, light taxes, and a bonus.

NEW COMPANIES.—Fowler Electric Co., Fowler, Ind.; $25,000; C. C. Curtis, H. B. Mersh.

The National Power Co., Kittery, Me.; $1,000,000; W. E. Taft, Boston, Mass., Pres.; F. E. Rowell, Kittery, Treas.

Consolidated Railway, Electric Light & Equipment Co., 243 Washington St., Jersey City; $16,000,000; W. W. White, F. C. Rowley.

Seattle Electric Co., Seattle, Wash.; $6,250,000; Jacob Furth, M. McMicken.

Alabama Electric Light & Power Co., Montgomery, Ala.; $50,000; H. S. Parsons, H. C. Davidson.

Kitson Light Foreign Development Co., Charleston, W. Va.; $1,000,000; J. E. Scaggs, J. E. Chilton.

S. C.; $150,000; F. D. McEwen, P. H. Gadsden.

Equitable Heat, Light & Power Co., of Iowa, Des Moines, Ia.; $200,000; N. E. Coffin, F. F. Marriam.

Maumee Electric Co., Maumee, O.; $7,500; W. R. Tryon, W. S. Swan.

Pueblo Light, Heat & Power Co., Pueblo, Colo.; W. A. V. Rice, J. O. Albert.

Cedar Rapids Electric Light & Power Co., Cedar Rapids, Ia.; $500,000; C. J. Ives, I. B. Smith.

Spartanburg Railway & Electric Light Co., Spartanburg, Kankakee Heating, Lighting & Power Co., Kankakee, Ill.; $5,000; H. A. Magruder, R. G. Risser.

BRIDGES.

PORTLAND, ME.—Local papers state that Commissioner of Public Works Fernald will complete the survey of Vaughan's bridge so as to submit a report to the March session of the city government. The proposed structure, which will be of steel with granite piers, will have a draw and will be seven feet higher than the present one. Portland's share of the expense of building the structure is estimated at $250,000.

BRISTOL, CONN.—D. J. Hefferman, Clk. Bd. Selectmen, informs us that no steps have been taken towards the bridge over the Pequabue River at this place. The structure will probably have two spans of iron, 18 ft. roadway, on rock foundation.

NEW HAVEN, CONN.—C. W. Kelly, Cy. Engr., informs us that the proposition of building a new span for Tomlinson bridge is in the hands of the council. (See issue Jan. 11.)

BUFFALO, N. Y.—The lowest bid received by the commissioner of public works Jan. 17 for constructing the abutments, wing walls, etc., for a bridge over the Buffalo River at Seneca St., was submitted by Frank J. Reap, at $14,500.

LOCKPORT, N. Y.—Resolutions favoring the construction of a new steel bridge over the canal at Pine St. to replace the present structure have been adopted by the council, according to reports. The structure is estimated to cost $75,000.

NEW YORK, N. Y.—Bids are asked until Jan. 31 for making borings and soundings on the sites of the towers of the proposed bridges over the East River, between the boroughs of Manhattan and Queens, as stated in our advertising columns. John L. Shea, Comr. Bridges, 21 Park Row.

SYRACUSE, N. Y.—City Engineer Stuart has been directed by Mayor McGuire to estimate the cost of replacing the bridge over the Oswego Canal in North Salina St., by a new structure.

NEWARK, N. J.—The following bids were received by the council on Jan. 5 for constructing an iron bridge over the dam at Campbell's Pond: King Bridge Co., of Cleveland, O., $3,350; Variety Iron Works, New York, $2,600; Dean West Bridge Co., New York, $2,979; Wrought Iron Bridge Co., New York, $2,500; Pittsburg Bridge Co., $3,100; Boston Bridge Works, $3,500; H. J. Mullin & Co., New York, $2,775; Hooper & Wengen, Newark, $3,348; F. R. Long & Co., New York, $2,550; Stacy B. Opdyke, Jr., Philadelphia, $3,585.

READING, PA.—Adam H. Leader, Mayor, writes us that the report that a bridge is to be constructed over the Tulpehocken Creek is erroneous.

PULASKI CITY, VA.—The contract for constructing a bridge over New River at Towe's Ferry, which was let on Jan. 9, was awarded to the Virginia Bridge Co. at about $16,550.

SCRANTON, MISS.—Bids are asked until March 5 for constructing an iron and steel bridge over Black Creek in Jackson county, according to reports. Frank H. Lewis, Clk.

CLEVELAND, O.—Bids are asked until Jan. 31, according to reports, for erecting a masonry arch under the L. S. & M. S. Ry. at Gordon Park, to be 85 ft. long, with a span 62 ft. in length. C. W. Pratt, Ch. Engr.——Plans for the steel superstructure of the Willson Ave. bridge are being prepared by James Richie, Cy. Engr., who will soon ask for bids for the construction, to be completed by June, as authorized by the council. The contract for the substructure has been let.

SPRINGFIELD, O.—It is reported that the Ohio Southern R. R. will let a contract at once for a deck girder bridge on its line. J. T. Young, Supt. Bridges and Bldgs., Greenfield, O.

VINCENNES, IND.—Bids are asked until Feb. 7 for constructing steel highway bridges to cost about $12,000. J. S. Spiker, Engr., Knox County Comrs.

SAGINAW, MICH.—Wm. B. Baum, Mayor, informs us that plans for the Court St. bridge have been completed and that bids will soon be asked for the construction.

ELGIN, ILL.—Arwin E. Price, Mayor, writes us that all bids received on Dec. 15 for the construction of a bridge over Fox River, on Chicago St., have been rejected. The structure is estimated to cost $50,000. C. E. Ritter, Des. Engr., Cy. Engr. Bridges, Chicago, Ill.

GRAND DETOUR, ILL.—Bids will soon be wanted, according to reports, for constructing an iron bridge, 570 ft. long, over the Roch River, to cost about $40,000. Wm. B. Faresham, County Surv., Dixon, Ill.

ROCKFORD, ILL.—A. J. Lovejoy, Chn. Com., writes us that plans and specifications are now being prepared by Engineer Mead for the proposed bridge at this place, and that bids for the construction will soon be asked.

BRAINERD, MINN.—Bids are asked until Jan. 25 for constructing a wooden bridge over Pine River. A. Mahlum, County Audr.

OMAHA, NEB.—The location of the proposed bridge over the Elkhorn River has been definitely decided on by the county commissioners. The structure will be located at a point three miles north of Waterloo, three miles south of Elk City, and about one and a half miles north of Valley, and will be constructed at once; estimated cost, $8,000.

DENISON, TEX.—The bids received by the council on Jan. 6 for constructing a viaduct have been rejected, according to reports. New bids will be asked.

REDDING, CAL.—The following bids have been received by the supervisors for constructing a wood and iron Howe truss bridge over the Sacramento River at the mouth of Spring Creek: Bennett & Wagner, $12,500; Thompson Bridge Co., $10,445; Heckenroth & Doyle, $10,330; Clark & Henry, $10,170.85; Darby Laydon, $10,058; E. Markwick, $10,039; California Bridge & Construction Co., $9,864; San Francisco Bridge Co., $8,960 (accepted).

SACRAMENTO, CAL.—County Surveyor Boyd has been instructed to prepare plans and specifications for a bridge over Arcade Creek to replace the structure recently destroyed by the high water.

UKIAH, CAL.—Hale McCowen, County Clk., informs us that all proceedings for the bridge over Garcia River, near Point Arena, have been set aside until April.

TORONTO, ONT.—It is reported that C. N. Rust, Ch. Engr., has estimated the cost of replacing the Shaw St. wooden bridge by a steel structure at $13,000. Construction will probably begin soon.

COCHRANE, N. W. T.—It is reported that bids are wanted for constructing a bridge over the Bow River. J. T. Dennis, Deputy Comr. Pub. Wks., Regina, N. W. T.

BUILDINGS.

HANOVER, N. H.—The trustees of Dartmouth College have authorized the construction of a dormitory.

ROXBURY, MASS.—The following bids were received Jan. 15 by the school committee for erecting a school building at Willis and Caldwell Sts.: Mack & Moore, 22 Chapman St., $59,900; H. B. Cummings & Co., $61,938; J. Jacob & Son, $64,443; Isaac Weaver, 17 Otis St., $54,429; W. A. & H. A. Root, 166 Devonshire St., $58,999; Fessenden & Libby Co., $57,292; Angus McDonald, $62,539; Conners Bros., $66,500; Keening & Strout Bros., $61,716.

BUFFALO, N. Y.—J. J. Albright will give the city an art gallery to cost about $300,000. A bill has been introduced into the legislature providing for an appropriation of $600,000 for an armory for the 65th regiment.

GENEVA, N. Y.—The trustees of Hobart College are examining plans for the proposed Coxe memorial hall. Rev. R. E. Jones, Pres.

BROOKLYN, N. Y.—The following bids were received by the Department of Education, Elm and Grand Sts., Manhattan, Jan. 22, for erecting Public School 125: K. A. Murphy, 96 Linwood St., $146,000; F. J. Kelly & Son, 350 Fulton St., $148,000; John Thatcher, 54 Park Pl., $149,586; J. T. Woodruff, Long Island city, $149,765; Louis Weshler, St. James Bldg., Manhattan, $149,775; Kenny & Henningham, 5 Court St., $149,999; W. & T. Lamb, 99 Nassau St., N. Y., $150,125; T. Cockerill & Son, 220 4th Ave., N. Y., $159,775. Hartmann & Horgan, 287 4th Ave., N. Y., were the lowest bidders for completing Public School 14, at about $30,000.

NEW YORK, N. Y.—It is stated that a company has been formed to build a twenty-story hotel at 26th St. and 5th Ave., to cost about $5,000,000. R. H. Southgate, of the Auditorium Hotel, Chicago, and J. H. Breslin, of the Gilsey House, are said to be interested.—Reports state that a twenty-story office building will be built at 13 Broadway, to cost about $4,000,000.

NEW YORK, N. Y.—Plans have been filed by J. L. Miller, 128 Riverside Drive, for a seven-story brick flat at 126 Riverside Drive, to cost about $50,000; Julius Munckwitz, Arch., 247 W. 125th St.; by the American Geographical Society, 11 W. 29th St., for a five-story brick clubhouse at 15 W. 81st St., to cost about $100,000; Howells & Stokes, Archs., 47 Cedar St.; by Matthews & Eppenstein, 442 Columbus Ave., for six 5-story brick dwellings at 84th St., near West End Ave., to cost about $90,000; Ross & McNeil, Archs., 39 E. 42d St.; by H. J. Beau-

ANN ARBOR, MICH.—The question of the municipal ownership of the works is being considered.

OWOSSO, MICH.—The city clerk writes us that the city has done nothing yet about the proposed water meters.

RIVER ROUGE, MICH.—Mason L. Brown and W. C. Sauer have submitted bids for preparing plans for works.

CHICAGO, ILL.—Bids are asked until Feb. 9 for furnishing boiler breechings, and until Feb. 10 for six live steam purifiers for the Central Park Ave. pumping station. L. E. McGann, Comr. Pub. Wks.

MONMOUTH, ILL.—Arrangements are reported as being made to hold an election to vote on the question of issuing bonds for the proposed works, plans for which were prepared by D. W. Mead, First National Bank Bldg., Chicago.

KILBOURN, WIS.—We are informed that this place voted Jan. 16 to issue $9,000 in bonds for new works. The water at present is secured from the Wisconsin River, which is polluted with sewage. W. G. Kirchoffer, City Engr. of Baraboo, Wis., has made a test in the Potsdam sandstone and has found an abundant supply of good water.

RACINE, WIS.—M. Higgins, Mayor, writes us that the city will have a chance to buy the works of the Racine Water Co. in 1901, or at the end of 15 years from the time the plant was accepted by the city. If the plant is not purchased then, the city will have options on it in 1906 and 1911, when the franchise expires. A committee has been appointed, consisting of the mayor, five aldermen and five business men.

UTE, IA.—H. D. Ainsworth, Mayor, writes us that the works are complete except for want of a tank, and money for that purpose is being raised.

BUTTE, MONT.—The Butte City Water Co. is reported to have let the contract for seven miles of 26-in. riveted pipe to Wolff & Zwicker, Portland, Ore., at $75,000. A reservoir will be built at the Banks of the Big Hill.

APPLETON CITY, MO.—A company is to be formed with a capital of $25,000 to put in works, the water supply to be secured from wells.

EAGLE, TEX.—The Rio Grande Water & Power Co. has been incorporated with a capital stock of $40,000 by Leonardo de Bona, Pasquale de Bona and others.

FARMERSVILLE, TEX.—Bids are asked unail Feb. 1 for sinking an 8, 6 and 4-in. artesian well 2,000 ft. for a water supply. D. P. Johnson, Secy.

HOUSTON, TEX.—Bids are asked until noon Jan. 31 for erecting a pneumatic water system in the Harris county court house. E. F. Schmidt, Comr. Precinct No. 1, Houston.

PONCA CITY, OKLA. TER.—Bids are asked until Feb. 6 for furnishing the machinery, etc., for works. C. H. Ogden, Cy. Clk.

HELENA, MONT.—Press reports state that this city has voted to issue $600,000 for the purchase of the works, or to build anew, and also to issue $30,000 for an electric plant. Address Mayor Edwards.

LIVINGSTON, MONT.—An election will be held Jan. 25 to vote on the question of issuing $100,000 in bonds for the purchase of the works.

DENVER, COLO.—Wm. M. Stodghill, Mayor's Secretary, writes us under date of Jan. 20 that Mayor H. V. Johnson has just signed the ordinance which provides for incurring an indebtedness of $4,700,000 for the proposed water-works. It now lies with the board of public works as to whether or not it will build an entirely new plant and obtain new source of water supply or will buy the present plant, improve it and enlarge it. These matters and the handling of the bonds are in the hands of the board of public works. Mr. Stodghill says in reference to the light plant that at the last meeting of the board of aldermen two ordinances were introduced asking for franchises, one by Bennett & Myers, of this city, and the other by J. H. Brown, of Chicago. Since then Mayor Johnson and the council have received other communications which lead them to believe that at the next meeting propositions will be put in the form of ordinances asking for franchises by Charles T. Lacombe, representing the Western Electric Co., Chicago, and by the Denver City Light and Power Co. The proposition of the latter company is made on condition that the franchise of the Denver, Boulder & Northern R. R. Co. is granted them, as the same people are interested in the two concerns and one franchise would depend upon the other. It is very probable that other propositions for a light plant will be made to the city, some for electric light alone and some for both gas and electric light. There is a gentleman in Denver who has notified the mayor that some New York parties want to enter the field.

BAKER CITY, ORE.—O. C. Stern, Supt., writes us that an election will be held Jan. 27 to vote on the question of issuing $100,000 in bonds for gravity works. It is not decided whether wood or steel pipe will be used. Population, 8,000.

FOSSIL, ORE.—Plans for gravity works have been prepared by W. J. Roberts, Pullman, Wash. The works include 12,000 ft. of 2½-in. pipe, for supply line, 150,000 gallon reservoir, distribution, 1,400 ft. 8-in. pipe, 3,600 ft. 6-in pipe, 2,500 ft. 2-in. pipe, 11 hydrants, necessary gates and accessories. The supply is a spring flowing 76,400 gallons in 24 hours, 800 ft. elevation above town. Estimated cost, $11,200. Population, 500. Bonds for $12,000 will be sold April 1. W. W. Steimer, Chn. Com.

CHICO, CAL.—Bids are asked until Feb. 7 for the purchase of a franchise for supplying the town with water, and gas franchises have been applied for by the Chico Water Co. and the Chico Gas Co. Richard White, Cy. Clk.

MONROVIA, CAL.—W. A. Walker, Cy. Clk., writes us that an ordinance has been passed calling for an election Feb. 27 to vote on the question of issuing $20,000 in bonds for improving the works, to consist of three reservoirs and a small plant to pump to an elevation of 100 ft., additional mains, etc.

ARNPRIOR, ONT.—W. M. Howe, Mayor, writes us that this place voted Jan. 1 in favor of works. It is likely that a by-law will be submitted to issue $75,000 in bonds for works and a sewerage system; population, 5,000.

GUELPH, ONT.—The mayor has recommended the extension of the works.

LINDSAY, ONT.—The town clerk writes us that the town has passed a by-law for the purchase of the works, and $75,000 in bonds for the purpose will be issued in May or June, when the town will take possession.

IRRIGATION.

HOUSTON, TEX.—The Trinity Rice Land & Irrigation Co. has let the contract for a pumping plant to Boland & Gschwind Co., New Orleans, La., at $42,538. W. C. Moore, Vice-Pres.

DENVER, COLO.—It is stated that the First National Bank is interested in the plan to extend the Otero Canal and irrigate 10,000 acres.

SPOKANE, WASH.—D. C. Corbin and W. L. Benham are reported to be interested in the plan to irrigate about 100,000 acres in the Spokane Valley.

RINCON, CAL.—The Santa Ana Valley Irrigation Co. will spend $50,000 in irrigating at Crary.

SEWERAGE.

NEWBURYPORT, MASS.—It is proposed to issue $75,000 in bonds for new sewers, according to reports.

NEW HAVEN, CONN.—Bids are asked until Jan. 30 for furnishing cobble-stone, blue-stone, cement, sewer pipe, castings, Belgian blocks, etc., for the year. C. W. Kelly, Cy. Engr.

JAMAICA, N. Y.—Bills are before the legislature authorizing the construction of a system of sewage disposal to cost about $94,000, and for a system for Elmhurst to cost $50,000. Address M. J. Goldner, Deputy Comr. of Sewers, Long Island City.

NEW YORK, N. Y.—Bids are asked by the department of sewers, 13 Park Row, until Jan. 31, for constructing sewers in five streets in the Bronx, etc.

SYRACUSE, N. Y.—R. R. Stuart, Cy. Engr., writes us that it is proposed later on to consider a proposition to construct a system of intercepting sewers to cost about $500,000.

BLOOMFIELD, N. J.—Bids are asked until Feb. 5 for the purchase of $50,000 of 4% sewer bonds. G. L. Stout, Chn. Township Com.

KEARNEY, N. J.—Bids are asked until Jan. 23 for constructing brick and pipe sewers, according to reports. T. C. Wildman, Town Clk.

PASSAIC, N. J.—The contract for building a sewer in North Passaic has been let to Troast & Finnegan, Garfield, N. J., at about $16,000.

BEAVER FALLS, PA.—At the election Feb. 20 this place will vote on the question of issuing $60,000 in bonds for a new system, according to reports. Address Councilman Klein or Burgess Pangburn.

CARLISLE, PA.—At the February election this place will vote on the question of issuing bonds for sewers.

CONEMAUGH, PA.—The question of issuing $25,000 in bonds will be voted upon Feb. 20; half of the proceeds are proposed for sewers and half for an electric plant.

MEDIA, PA.—At the coming election the city will again vote on the question of sewerage.

WILKES-BARRE, PA.—Bids are asked until Feb. 17 for constructing a certain sewer; check, $500. S. R. Catlin, Chn. Com.

WILLIAMSPORT, PA.—We are informed that Robt. Stucker, Harrisburg, Pa., has been awarded the contract for the house sewer in Arch St., to cost $8,586, and that the Corryell Construction Co., of this city, has the contract for the Church St. sewer, at $1,079.

WILMINGTON, DEL.—Mayor Waddell has appointed Aldermen C. W. Worth, H. P. West, J. H. Hanby and Hugh MacRae a committee to consider the question of sewerage.

BALTIMORE, MD.—The Maryland Construction & Contracting Co. will ask the legislature to perfect its charter so that it may submit a proposition to the mayor to construct the system. Francis E. Waters, Pres.; T. K. Carey, Treas.; Kenneth Allen, Engr., 804 Equitable Bldg.

FREDERICK, MD.—Willard C. Keller has submitted a proposition to form a company to build a system.

HARRISONBURG, VA.—Bids are asked until Feb. 12 for constructing about 5,200 ft. of 15 to 6-in. pipe sewers. D. M. Switzer, Mayor; T. O. Jones, Chn. Com.

ATHENS, GA.—It is proposed to build a sewer on Lumpkin St. Address City Engineer Barnett.

NASHVILLE, TENN.—Mayor Head has recommended that the legislature be asked to authorize this city to issue $500,000 in bonds for new sewers, and $150,000 for an electric plant.

LEXINGTON, KY.—It is proposed to build a 24 to 27-in. pipe sewer, 4,300 ft. long, to cost about $15,000. Address Mayor Duncarand.

DAYTON, O.—F. M. Turner, Cy. Engr., writes us that a resolution has been passed authorizing the construction of about ten miles of 12 to 8-in. pipe sewers, including a pumping station; estimated cost, $49,000; also the paving of 6th St., from Ludlow to Canal St.

GREENVILLE, O.—C. O. Lucas, Clk., writes that it was voted Jan 15 to issue $65,000 in bonds for a system. The council will act upon the matter at once. W. D. Brombaugh, Cy. Engr.; L. E. Chenoweth, Mayor.

MINGO JUNCTION, O.—Bids are asked until Feb. 20 for the purchase of $5,000 of 6% bonds for a sewer in Commercial Ave. W. I. Scott, Clk.

WELLSVILLE, O.—Plans for the proposed system have been completed by H. E. Riggs, The Nasby, Toledo, O. The Sewer Alley storm sewer, to be 4,000 ft. long, will cost about $27,000. D. A. Davidson, Cy. Clk.

CHICAGO, ILL.—The question of building a sewer in Columbus Ave. from 75th St. to Clarksdale, to cost $34,800, is being considered.

GALESBURG, ILL.—M. J. Blanding, Cy. Engr., has completed plans for a new system to cost about $250,000. The main sewer will be 14 ft. wide and 9 ft. 3 ins. high, and the branches will be 66 to 48 ins. in diameter.

YORK, NEB.—It is proposed to build a sewer, to cost about $8,000, according to reports.

ABERDEEN, S. DAK.—It is reported that City Auditor Schleuter is asking for bids for 1,368 ft. of sewers, to cost about $9,000.

LEAD, S. DAK.—The question of building a system will again be voted upon, according to reports.

HOUSTON, TEX.—Alderman Rosenthal has introduced an ordinance authorizing the city to ask for bids for building the proposed system. Alex. Potter, Engr., 257 Broadway, New York, and Lewis Block, Pittsburg, Pa.

PUEBLO, COLO.—Alderman J. W. Johnson writes us that plans for a new sewer have been prepared, but that the contract has not yet been let.

ROSWELL, N. MEX.—Bids are asked until March 13 for constructing a trunk sewer, as stated in our advertising columns. Hiram Phillips, Consult. Engr., Lincoln Trust Bldg., St. Louis, Mo.; B. F. Hammett, Jr., Clk.

SEATTLE, WASH.—Plans for a sewer 1¾ miles long east of Renton Hill have been prepared; estimated cost, $35,000.——We are informed that the contract for a sewer in Jackson St. has been let to Stirrat & Goetz, at $2,773, as well as for a sewer in Roy St., at $5,888. R. H. Thompson, Cy. Engr.

POMONA, CAL.—W. H. Sanders, Cy. Engr., has completed plans, etc., for a system to cost about $28,100.

SANTA MONICA, CAL.—Thos. H. James, Cy. Engr., writes us that the following bids were received Jan. 15 for building a sewer: Geo. Ranaz, $4,330; J. W. Dameron, $4,067; Z. H. Lowman, $4,404; W. A. Frick, $4,425; C. L. Powell, Los Angeles, Cal., $4,148 (accepted).

GARBAGE DISPOSAL—STREET CLEANING

GENEVA, N. Y.—Rev. J. B. Hubbs, D. D., Pres. Bd. Health, writes us that on account of the council refusing to include in the annual appropriation an item for garbage collection, the matter will be dropped.

JAMAICA (L. I.), N. Y.—Bids for removing garbage, ashes and street sweepings in the several wards of Queens Borough, received Jan. 13 by Commissioner McCartney, were as follows: First Ward, Larsen $12,436, Hicks $7,300; Second Ward, Card & Monteverde $8,900, Hohfeler $6,590; Third Ward, Collins $6,350, Tuohy & Co. $6,600, Larsen $7,357, Peace Bros. $10,000; Fourth Ward, Foley $5,700; Fifth Ward, Walters $8,340, Pearsall $11,558.

NEW ROCHELLE, N. Y.—C. S. Haskell, Cy. Engr., writes us that the subject of a garbage disposal plant has been suggested, but nothing further has been done. Address Sewer Engineer Hoskins.

NEWCASTLE, VA.—Councils are reported as considering an ordinance for a crematory.

WILMINGTON, DEL.—The following contracts were let Jan. 15 for removing garbage during the three years beginning Feb. 1: 1st district, Geo. C. Slaughter, $5,400; 2d, Martin F. Keogh, $7,950; 3d, Henry D. Witsil, $9,100; 4th, Riley & McCormick, $15,500.

NEWPORT, KY.—The city will take steps immediately to begin the erection of a crematory. It is proposed to erect one for the joint use of Newport, Bellevue and Dayton. W. L. Glazier, Comr. Pub. Wks.

HAMILTON, O.—Efforts are being made to have a crematory built. Address Councilman Mason.

PEORIA, ILL.—H. W. Lynch, Mayor, writes us that the garbage crematory appropriation will receive consideration during the next two months. Alderman E. S. Kearjeas, it is stated, is securing information about the collection and disposal of garbage.

ST. PAUL, MINN.—The recommendation of O. Claussen, Cy.Engr., to put all work of street cleaning and garbage collection under his department has been adopted by the committee. Street sprinkling for the year will cost $51,000, garbage collection $25,000 and the maintenance of streets and sewers $150,000. Mr. Claussen has recommended that the 30 miles of old wood pavements be replaced with stone, brick or asphalt in the central part of the city, and with macadam in the outlying districts. The further investigation of methods of garbage collection and disposal, street cleaning, etc., will be made. The members of the committee are: Mayor Kiefer, Chn.; City Engineer Claussen, Controller McCardy, Health Commissioner Ohage, Ald. Knauft, Assemblyman Albrecht, Mrs. Conde Hamlin, of the Woman's Civic League, and Rev. S. G. Smith.

STREETS AND ROADS.

BROOKLINE, MASS.—The following bids were received Jan 2 by the selectmen for furnishing granite paving blocks, etc.: S. & B. J. Lombard, Boston, $12,800; A. A. Libby & Co., Boston, $14,100; T. Fitz Gibbon, Beverly, $14,700; Rockport Granite Co., Rockport, $15,320; Pigeon Hill Granite Co., Rockport, $15,880.

OSWEGO, N. Y.—A. M. Hall, Mayor, writes us that he has recommended the issue of $100,000 in bonds for street improvements. An election will soon be held to decide the matter.

BAYONNE, N. J.—The question of street improvements to the extent of about $75,000 is being discussed.——E. Seymour, Mayor, writes us that no contracts for paving will be let yet.

FAIRVIEW, N. J.—Bids are asked until Feb. 7 for grading, etc. F. B. Wallace, Borough Clk.

ORANGE, N. J.—Bids are asked until Feb. 5 for flagging the sidewalks of Cleveland St. R. Rodman, Chn.

PLAINFIELD, N. J.—The Committee on Streets and Sewers has recommended extensive improvements, according to reports.

CONNELLSVILLE, PA.—The question of issuing $15,000 in bonds for street improvements will be voted on in February.

EASTON, PA.—A. J. Cooper, County Engr., writes us that he has made no survey of the Delaware River road, but will begin about Feb. 1.

SCRANTON, PA.—Mayor Moir has authorized the opening of Wyoming Ave., to cost about $56,000.

BALTIMORE, MD.—William W. Varney, Cy. Comr., writes us that there are a number of ordinances pending for paving short sections; specifications are being prepared for paving Bank Lane with asphalt blocks; contracts have been let for paving Eager St. with Belgian blocks; bids have not been asked for material for the coming year, but the city will want paving sand, rubble stone, flagstone, brick, asphalt, asphalt blocks, Belgian blocks, etc.

NEWPORT NEWS, VA.—Bids are asked by the City Clerk until Feb. 19 for paving several streets, as stated in our advertising columns. J. F. Hughes, Chn. Street Com.

ROANOKE, VA.—Bids are asked until Jan. 31 for grading and guttering Center Ave., N.W. W. E. Thomas, Clk Common Council.

CHARLESTON, W. VA.—W. H. Smith, Mayor, writes us that the question of issuing bonds for street improvements has been defeated.

WILMINGTON, N. C.—Hugh MacRae, Chn. Streets and Wharves Com., writes us that satisfactory arrangements for paving have about been closed.

BATON ROUGE, LA.—Bids are asked until Feb. 1 for paving sidewalks on several streets. R. A. Hart, Mayor.

NEW ORLEANS, LA.—J. S. Waterman, Mayor's Secy., writes us that the budget of 1900 provides for the paving of Canal St. Nothing has been done relative to paving Lafayette St. The council has defeated the Carondelet St. paving ordinance. A. C. Bell, Cy. Engr.

NEW ORLEANS, LA.—Bids are asked until Jan. 29 for paving Prytania and Customhouse Sts. with asphalt, Julia St. with blocks and the triangle at Bayou Road and Kerlerec St. with brick and schillinger. W. S. Douglass, Compt.

PLAQUEMINE, LA.—It is stated that M. L. Levy, Cy. Clk., will receive bids for street improvements.

CLEVELAND, O.—E. A. Dory, Contract Clk., writes us that the following lowest bids were received Jan. 18 for laying brick pavements on 14 streets: Roehl Bros., 187 Woodbridge Ave., paving Brainard St., $8,650; Buhrer Ave., $7,251; Daisy St., $9,163; Merchant Ave., $17,846; Sackett St., $13,314; West Clinton St., $6,318. Bramley & Co., 41 Central Ave., paving Giddings Ave., $12,987; Sterling Ave., $11,735. Brennan & Buettner, 44 Case Library Bldg., First Ave., $13,021; Miles Ave., $9,180. The Northern Ohio Paving & Construction Co., 30 Case Library Bldg., Professor St., $7,443. Over 90 bids were received. The council has asked for time to consider bids, owing to the advance in price.

DAYTON, O.—F. M. Turner, Cy. Engr., writes us that a resolution has been passed for paving 6th St., from Ludlow to Canal.

NORWALK, O.—The council has passed a resolution for the improvement of Main St. C. A. Bechtel, Pres., T. P. Kellogg, Cy. Clk.

SPRINGFIELD, O.—City Engineer Sharon has recommended the paving, curbing, sidewalking and improving of several streets.

TIFFIN, O.—J. O. Mayers, Mayor, writes us that no street grading or paving is contemplated at present.

TOLEDO, O.—Bids are asked until Feb. 19 for paving Hicks St. with brick, about 12,825 sq. yds., to cost about $30,000. W. F. Brown, Cy. Engr.; W. O. Holst, Cy. Clk.

YOUNGSTOWN, O.—The question of paving Market St. from the viaduct to Warren Ave. is being discussed.

MIDDLETOWN, IND.—J. A. Young, Pres. Bd. Trustees, writes us that the board has not yet determined upon improvements for the coming year.

PENDLETON, IND.—D. B. Cole, Clk. and Treas., writes us that no contracts are to be let until the Barrett Law is settled by the Supreme Court. A decision is looked for soon.

BAY CITY, MICH.—The council has approved the estimate of $2,858.76 for paving First St. with brick. O. A. Watrous, Secy.; G. F. Ambrose, Chn.

SAGINAW, MICH.—Wm. B. Baur, Mayor, writes us that plans for paving Lapeer St. with brick are being prepared.

ALTON, ILL.—The council has been petitioned to pave Union St. from Vandalia Road to Henry St.

BELVIDERE, ILL.—Wm. H. Moore, Mayor, writes us that the petition to asphalt State St. has just been received by the board of local improvements; the matter will be given a hearing Jan. 29.

BLOOMINGTON, ILL.—The highway commissioners want correspondence regarding road material. J. G. Mellnish, Engr. Bd., Eagle Block.

CHICAGO, ILL.—Bids are asked until Feb. 13 for about 3,105 sq. yds. asphalt paving, four new catchbasins and five electric switches and insulators and lamp poles, set. C. B. Pavlicek, Pres. Bd.; E. G. Schubert, Secy.

ELGIN, ILL.—The mayor writes us that the city will soon advertise for a 20-ton steam road roller. Chairman Streets Committee may be addressed.

LA CROSSE, WIS.—Frank Powell, Cy. Engr., writes us that it is proposed to lay about 70,000 sq. yds. of brick paving, to cost about $100,000.

MILWAUKEE, WIS.—We are informed that the board of public works has submitted to the council resolutions for paving a number of streets.

ST. PAUL, MINN.—Bids are asked until Jan. 25 for constructing, relaying and repairing cement walks as ordered, and until Jan. 29 for paving Sherburne Ave. with asphalt, about 1,520 sq. yds., for paving Summit Ave. with asphalt, about 2,600 sq. yds., and for paving Farrington Ave., about 4,000 sq. yds. M. Pottgeiser, Pres. Bd. Pub. Wks. C. H. Bronson, Clk.

ST. PAUL, MINN.—The board of public improvements has approved ordinances for asphalting four streets, to cost about $65,000.

CARROLLTON, MO.—J. E. Lynn, Secy. Street Com., writes us that the committee is discussing the laying of about 50,000 sq. yds. of brick and macadam.

KANSAS CITY, MO.—Bids are asked until Jan. 27 for constructing plank sidewalks on portions of eight streets. H. A. Wise, Cy. Engr.

GALVESTON, TEX.—Geo. Q. McCracken, Cy. Clk., writes us that the election held Jan. 16 to vote on the issue of $90,000 in bonds for street improvements was defeated.

GALVESTON, TEX.—Bids are asked until Feb. 15 for furnishing paving material, as described in our advertising columns. Geo. Q. McCracken, Secy. Bd. Pub. Wks.

SAN ANTONIO, TEX.—W. W. Johnson, Cy. Clk., writes us that nothing will be done at present, but about $250,000 of asphalting will be done this year.

DENVER, COLO.—The board of public works has been petitioned to pave York St. with asphalt.

SEATTLE, WASH.—We are informed that the following contracts have been let by the city engineer: Planking Marion St., to T. F. Flynn, at $1,603; Fifth Ave. South, Sixth Ave. South, and King St., to Stirrat & Goetz, at $4,884. Colfax St. to D. Dow & Co., at $762; grading, alley in block 2, to C. J. Erickson, at $1,216; part of 11th Ave. North, to A. J. Steele, at $3,738. R. H. Thompson, Cy. Engr.

SAUSALITO, CAL.—Bids are asked until Jan. 29 for constructing road. R. E. Graham, Clk. Bd. Supervisors.

VICTORIA, B. C.—It is stated that a road will be built from Klimat Arm to Hazelton, about 120 miles, to cost about $100,000.

MANUFACTURING PLANTS.

BINGHAMTON, N. Y.—The American Leather Co. is reported to have made preparations for an extension to the Weed Tannery, which it owns, to employ 300 additional hands.

LYONS, N. Y.—It is reported that a company is being formed, to be known as the Empire State Sugar Co., to build a beet sugar plant at this place, with a capacity of 500 tons a day. Orlando F. Thomas, 71 Broadway, New York, is interested.

SANDY HILL, N. Y.—Edgar G. Barrett, Ch. of Construction, the Union Bag & Paper Co., Fisher Bldg., Chicago, Ill., writes us that the construction of the addition to the company's bag factory at Sandy Hill, 100 x 500 ft., four stories high, to cost about $50,000, will be built by the company, and that the new plant will be operated from the present one.

CARLISLE, PA.—Reports state that the Carlisle Paper Box Co. will soon build an extension to its factory at this place.

EAST PITTSBURG, PA.—It is reported that the Westinghouse Electric & Mfg. Co. has plans for a new building, to be 1,200 ft. square and three stories high, to be an addition to the machine shop and warehouse of the company at this place. It was reported Jan. 13 that the contract would be let within 10 days.

WILKESBARRE, PA.—The board of trade has decided on a location for the proposed new cotton mill, which will be operated in conjunction with the Wilkesbarre Lace Mills. The new factory will employ several hundred hands. About $475,000 has already been subscribed.

KITTRELL, N. C.—Thomas H. Crudup is said to be the chief promoter of the $100,000 cotton mill which is proposed for this town.

RALEIGH, N. C.—The Cora Cotton Mills has been incorporated, with $100,000 capital stock, to build a cotton mill near Kings Mountain. C. A. Dilling, O. Y. Fall and J. M. Williams are interested.

ROCKINGHAM, N. C.—Robt. L. Steele writes us that he has postponed the matter of building the proposed bleachery.

JONESVILLE, S. C.—J. J. Littlejohn, Treas., writes us that the contract for the equipment of the Alpha Cotton Mills will be let on April 1.

GRIFFIN, GA.—It is reported that arrangements have been made by E. H. Spivey, Talbutton, for the erection of a $25,000 knitting mill at this place. A. S. Brown, it is said, will remove his knitting mill to this place from Little Falls.

PELHAM, GA.—Bids are asked until Feb. 1 for erecting a building for the Pelham Mfg. Co., to be 105 x 175 ft., two stories high. The building is to be equipped with a fan system of heating and ventilating and electric lighted, and will cost $12,000. Electric lighting shafting, belting, etc., will be wanted. The equipment has been purchased at a cost of $65,000. A. F. Walker, Arch., Atlanta.

THOMASTON, GA.—O. S. Causey, of the Thomaston Cotton Mills, writes us that he desires estimates on one engine 18 x 48 ins., band wheel 25 x 30 ins., face 16 ins. diameter, or a cross compound condensing engine to work 80 HP., high pressure cylinder, high pressure 16 x 42 and low pressure 30 x 42; also water tubes or other boilers to go with same, and a boiler 150 HP., all tested to 125-lb. pressure.

ANNISTON, ALA.—Local papers state that W. E. Knox is interested in the proposed erection of a knitting mill in this place, for which a site is now being asked.

KNOXVILLE, TENN.—L. C. Waters, Arch., Humes Bldg., Knoxville, writes us that the contract for constructing the scraper coal conveyor for the Brookside Mills has been let to the Gentry Mfg. Co.

INDIANAPOLIS, IND.—H. E. Kinney, Chn., Manufacturers' Club, informs us that plans for the Power Bldg. Co.'s building have been prepared by S. H. Brubaker, Arch., Stevenson Block, Indianapolis, and that bids will be received until March 1 for the erection. The structure will cost about $250,000, and will be used to furnish space, power, etc., to manufacturers. The equipment has not been decided on. Local papers state that the plans call for a structure 100 x 200 ft., seven stories high, to have about 150,000 ft. of floor space.

PEORIA, ILL.—We are informed that the contract for constructing a sugar factory for Messrs. Fuchrman & Hopke has not been let.

HENDERSON, TEX.—It is reported that $50,000 has been subscribed towards the erection of a cotton mill at this place.

TORONTO, ONT.—Bids were asked until Jan. 25 for erecting a factory building in Parkdale. S. Hamilton Townsend, Arch., 15 Gerrard St. East.

CHICOUTIMI, QUE.—The Chicoutimi Pulp Co. has increased its capital to $1,000,000 (an increase of $750,000) for the purpose of erecting a new mill with an output of 500 tons per day in the early spring.

NEWFOUNDLAND.—A correspondent informs us that large paper and pulp mills are to be built by R. G. Reid & Sons, 275 Drummond St., Montreal, Que., who own nearly all of the timber and mineral lands in Newfoundland. Complete drawings have been prepared by A. C. Rice, M. Am. Soc. M. E., State Mutual Bldg., Worcester, Mass., for a 100-ton bleached sulphite mill, a ground wood pulp mill with 28 grinders, and a paper mill to make 150 tons of news. These mills will be located near the outlet of Grand Lake, which is about 56 miles long, and varying from one to ten miles in width. The plans call for a concrete dam about 500 ft. long and 40 ft. high, which will raise the normal level of the water in the lake about 6 ft., making a working head of 40 ft. and develop 15,000 HP. The dimensions of some of the principal buildings are as follows: Ground wood and paper mill, 232 x 440 ft., two stories high; finishing room, 70 x 232 ft., two stories high; shipping room for paper, 96 x 200 ft. two stories. Sulphite mill, 284 x 308 ft.; shipping room for bleached sulphite, 32 x 106 ft.; wood repairing rooms, 52 x 470 ft.; and boiler house, 52x 160 ft. These buildings will be of concrete and steel, using wood only in the doors, window frames and roof planking, to make them practically fireproof. Messrs. Reid operate 600 miles of railway, running between Port au Basque and St. Johns. Besides the steamer "Bruce," which Messrs. Reid own, they will put into service, this spring, four more large steamers, making regular trips from Halifax, N. S., North Sidney, Cape Briton, Prince Edward Island, through the Gulf of St. Lawrence and around Newfoundland to St. Johns. Newfoundland has the finest spruce timber in the world for pulp and paper, the trees being from 6 to 15 ins. in diameter and are from 30 to 60 ft. high before reaching the limbs—there being a great number of trees per acre. Near the proposed location of the mills, Messrs. Reid have pyrites mines, yielding from 48 to 53% of sulphur, and a large mountain of fine marble and lime rock and abundance of coal. In addition to these large mills, they are building a hotel at St. Johns, to accommodate 350 people. Mr. Rice has also furnished Messrs. Reid with plans for developing a water power and building a 3,000-HP. electric power station at Petty Harbor, where there is a natural fall of 185 ft. This harbor is about eight miles from St. Johns, where this power will be transmitted and used to operate the railway shops, street car lines and to furnish lighting. The hydraulic machinery for this plant was furnished by Stilwell-Bierce & Smith-Vaile Co., Dayton, O., for whom Mr. Rice was Chief Engineer and General Superintendent for 15 years, and the electrical machinery by the Westinghouse Electric Mfg. Co., Pittsburg, Pa., all of which is nearly completed and will be in operation by April 1.

MISCELLANEOUS CONTRACTS.

TELEPHONE.—Covington, Ky.—Dickerson & Wood will build a telephone system here and connect with Jackson.

PARK.—Philadelphia, Pa.—The park commissioners have asked for an appropriation of $100,000 for park work for 1900.

DYKE.—Elmira, N. Y.—A bill appropriating $10,000 for building a dyke in the Chemung River has been introduced in the legislature.

BOOM.—New Orleans, La.—Bids are asked until Feb. 16 for constructing boom at the mouth of Bayou Teche. Maj. H. M. Adams, U. S. Engr.

DREDGING.—New London, Conn.—Bids are asked until Feb. 19 for dredging in the Mystic and Housatonic Rivers. Maj. S. S. Leach, U. S. Engr.

DAM.—Otsego, Mich.—It is stated that J. E. Botsford and G. E. Dunbar will build a dam on the Kalamazoo River between here and Plainwell.

SEA WALL.—Boston, Mass.—Bids are asked until Jan. 29 for building a sea wall on the west side of Dorchester Ave. Check $1,000. Wm. Jackson, Cy. Engr.

BREAKWATER.—New York, N. Y.—The dock commissioners have decided to build a stone breakwater south of Pier A, North River, to replace the wooden one.

TELEPHONE.—Long Island, N. Y.—The New York & New Jersey Telephone Co., 15 Dey St., New York, will spend about $2,0000,000 in improvements on Long Island.

STONE WALL.—San Francisco, Cal.—The contract for the stone wall separating the Presidio from the city of San Francisco has been let to R. C. Mattingly, Safe Deposit Bldg.

DOCK.—New York, N. Y.—A bill has been introduced in the legislature providing for the issue of $12,000,000 in bonds for extending and improving the docking facilities of New York.

WHARF.—San Francisco, Cal.—H. H. Holmes, Ch. Engr. State Comrs., Sacramento, Cal., has prepared plans for a 330-ft. extension to the Main St. wharf and for a shed 580 x 72 ft.

LOCKS.—Warrior River, Ala.—Christie, Lowe & Nepworth, 171 La Salle St., Chicago, are said to be the lowest bidders for constructing locks 4, 5, and 6, on the lower Warrior River, at $417,230.

VESSEL.—Washington, D. C.—Bids are asked until Feb. 28 for constructing a steel steam propeller vessel for the revenue cutter service on the Great Lakes. O. L. Spaulding, Asst. Secy., Treas. Dept.

FERRY SLIP.—San Francisco, Cal.—We are informed that the following bids were received Jan. 20 for constructing a 110 x 139 ft. ferry slip at the Mare Island Navy Yard: City Street Improvement Co., Mills Bldg., San Francisco, $49,728; Clark & Henery, P. O. Box 103, Stockton, Cal., $43,419; Dundon Bridge & Construction Co., 223 Folsom St., San Francisco, $38,383; Wm. H. Healy, 44 Stewart St., San Francisco, $29,873; J. J. Dunn, 1510 Spring St., Berkeley, Cal., $43,000; Fred. Peterson, Central Bank Bldg., Oakland, Cal., $28,773.

PIER EXTENSIONS.—Grand Rapids, Mich.—Bids are asked until Feb. 23 for extension and repair of piers at White Lake, Mich., as stated in our advertising columns. Capt. C. Harding, U. S. Engr., 57 Park St.

DREDGING.—Cleveland, O.—Bids are asked until Feb. 16 for dredging and removing bars and other obstructions from Cuyahoga River, Old River bed and Sycamore St. Slip for five years from April 1, as stated in our advertising columns. Walter O. Rice, Dir. Pub. Wks.

PARK WORK.—New York, N. Y.—Bids are asked by the department of parks, Arsenal, Central Park, until Feb. 2 for furnishing 1,200 cu. yds. of trap rock screenings in Bronx Park, and for constructing two double propagating houses and appurtenances at the conservatory, Central Park. G. C. Clausen, Comr.

RIVER IMPROVEMENTS.—Winnipeg, Man.—Wm. H. H. Graham, U. S. Consul, reports that the government will construct a series of dams and locks in the Red River, to cost about $700,000. An appropriation of $150,000 has been made. Plans are now being prepared. L. K. Jones, Secy. Dept. Canals & Rys., Ottawa, Ont.

FOREIGN CONTRACTS AND EXPORT NEWS.

BARROW-IN-FURNESS, ENG.—P. H. Griffin, Pres. N. Y. Car Wheel Works, Buffalo, N. Y., writes us that contracts for building the chilled steel making plant at Barrow for the British Chilled Iron & Steel Co., Ltd., will not be dealt with from America. W. F. M. Schneider, Chn., 38 Stanhope Gardens, S. W., London.

HALIFAX, ENG.—It is reported that in addition to the proposed improvements to the water-works, to cost about $1,000,000, the city is seeking authority to spend $1,500,000 for a new tramway and $500,000 for an electric plant.

LONDON, ENG.—Reports state that the British Royal Commission appointed to inquire into the cause of railway accidents has recommended the compulsory use of automatic couplings.

LOUGHBOROUGH, ENG.—Bids are asked until Feb. 19 for constructing an impounding reservoir, the masonry and concrete dam to be 482 ft. long, 94 ft. high from foundation to water level, and 108 ft. to top of parapet, to include a tunnel, valve tower, a viaduct, etc. Geo. & Fred. W. Hodson, Engrs., Abbey Bldgs., Princes St., Westminster, London; J. E. Jarratt, Deputy Town Clk.

WARRINGTON, ENG.—Thos. Longdin, Borough Engr. and Surv., writes us that it is proposed to spend about $450,000 on improving the tramways, but until the board of trade has sanctioned the scheme no further information can be given. Preece & Cardew, Engrs., 13 Queen Ann's Gate, London.

NEW CASTLE-UPON-TYNE, ENG.—The Tyneside Electric Power Co. has applied for permission to build three plants to supply power to New Castle, Tynemouth, South Shields, Walker and a dozen other towns; capital stock, $2,500,000.

DUBLIN, IRELAND.—Spencer Harty, Cy. Engr. and Surv., writes us that the corporation of Dublin is proposing to spend about $1,250,000 in connection with the electric lighting of the city. Before any of the work is undertaken, tenders will be advertised for and it will be open for any person, whether an American manufacturer or otherwise, to send in a tender. The city has rather heavy work in progress in connection with main drainage, and in a short time the fourth and fifth contracts will be advertised in the usual way.

FINDOCHTY, SCOTLAND.—Bids are asked by the clerk of harbor commissioners until Feb. 28 for improvements to Findochty Harbor.

PARIS, FRANCE.—It is stated that bids are wanted by the Senegal to the Niger Ry. (State Railway), care of the Minister for the French Colonies, Paris, for furnishing eight locomotives and a number of turntables. The road extends from Kayes to Oualila, 108 miles, in the French Soudan.——It is reported that la Societe des Fers et Acier Robert, of Paris, is to increase its capital from $800,000 to $1,600,000, to develop the plant recently acquired at Outreau, in the spring.

MANNHEIM, GERMANY.—Reports state that this municipality has appropriated about $1,118,000 for completing the Rhine Harbor. The city, it is also stated, recently purchased the electric lines of the Trambahn Mannheim-Ludwigshafen for about $1,190,000, which it is proposed to extend at a cost of about $350,000.

BRUSSELS, BELGIUM.—Reports state that E. V. Hotchkiss, of the Brussels branch of Adolf Jansens, Paris, France, who is a guest of the Imperial Hotel, 32d St. and Broadway, New York, will purchase machinery and machine tools.

HAINE ST. PAUL, BELGIUM.—Press reports state that the Societe Charbonnages Nord-Ouest de Boheme (Falkenau) has been formed, with a capital of $600,000, to acquire and exploit certain mining concessions from the Reichenau Kohlengewerkschaft, of Falkenau-am-Eger, Bohemia.

COPENHAGEN, DENMARK.—C. D. Hage, Dir.-Gen. Copenhagen Freeport Co., Copenhagen, is reported as wanting prices, plans, etc., for railway cars to carry grain.

RUSSIA.—It is reported that the government will construct a line from Tiflis to Vladipaopas, about 100 miles; estimated cost about $12,145,000. Many bridges and tunnels will be needed. Another road that the government is preparing to build is from the South of Russia to Turpestan.

KIOTO, JAPAN.—It is stated that the American Tobacco Co., Richmond, Va., and 111 Fifth Ave., New York, will build a factory here to cost about $5,000,000.

OSAKA, JAPAN.—About 89 miles of water pipe is to be laid, the work to be completed in three years, commencing with the fiscal year 1900, at a cost of about $430,450. The work is to be in charge of the Municipal Engineer, Governor's Office, Osaka.

STRAITS SETTLEMENTS.—Sir F. A. Swettenham, Resident-General, Federated Malay States, Kuala Lumpur, Selangor, Malay Peninsula, is arranging for the extension of the Great Malay Peninsular trunk railway from Negri Sembilan through Johore to Johore Bahru.

TURKEY.—Dr. Geo. von Siemans, Dir. Deutsche Bank, Berlin, Germany, writes us that only preliminary arrangements have been made so far for the proposed Bagdad-Bassorah Railway, noted in our issue of Nov. 23. The definite locations for the line, to be 270 miles long, have not yet been made, so it will be some time before contracts are let.

INDIA.—The Chittagon-Assam R. R. is to be extended about 45 miles from the Ledo through the Hukong Valley into Burma, and a bridge is to be built over the Irrawaddy at Sagiang. Sir A. M. Rendal & Son, Consult. Engrs., 8 Great George St., Westminster, London, S. W.——The Rohilkund & Kumaon Ry., A. Izat, Goraphpur, India, Ch. Engr. and Agent, proposes to connect by a direct line the meter gage roads centering at Mareilly with those centering at Soron, 53 miles. The new line will also be a meter gage one, and is estimated to cost $15,000 a mile. ——The following lines have been sanctioned by the Secretary of State for India: The line from Kolol (Rappu-

tana-Malwa R. R. station) to Dijapur, 47.600 kilometers, gage 1 meter, estimated cost $288,815, at the expense of the State of Barada; the line from Lolhiana (North Western R.R. station) to Jakhal (South Punjab R.R. station) passing through Dhuri on the Rajpura-Bhasinda road. The line will be 128.720 kilometers long and will be built by the States of Jhuid and Maler-Kotta. Sir A.M. Rendal & Son, Consult. Engrs.,London, S.W.——The survey of a line from Kalipan station on the South Indian Ry. to Royashoti is being made by order of the Madras President. Capt. A. D. G. Shelly, Agent South Indian Ry., Treshinopoly; H. W. Notman, Mgr.-Dir., 55 Gracechurch St., E. C., London.——The following surveys are also being made by Government sanction: The Dit-Kunch-Jalaun-Madhogarh, 55 miles, by the Indian Midland Ry. Co., Capthall House, Capthall Ave., London; Sir Geo. Bruce, Consult. Engr., 3 Victoria St., S. W., London; the Mozaffur-Dharmapuri, 16 miles, by the Madras Ry., 61 New Broad St., London; the Amritsar-Sarhali, 26 miles; the Mulla River, by the East Indian Ry. Co., Nicolas Lane, London; the Dassa State Ry. extension, 234 miles long, by the Eastern Bengal State Ry., Lesedah, Calcutta, India; The Kalipua-Royashali, 32 miles, by the South Indian Ry. Co., Gracechurch St., London. For further information about these and other projected railways in India, see our issues of Aug. 24 and Dec. 21.

CAPE TOWN, SOUTH AFRICA.—Wernher, Beit & Co., 120 Bishopsgate St., London, E. C., owners of the Capetown Tramways Co., write us that the report in December concerning the operations of the Mills Syndicate for new electric lines to Camps Bay, etc.,is erroneous, inasmuch as the syndicate is a separate concern from the Capetown Tramway Co., and its lines, when built, will not be amalgamated with those of the latter company. Dickinson & Co., Telephone Buildings, Birmingham, Eng., it is believed, are the consulting engineers for the Mills Syndicate.

HONOLULU, H. I.—A sugar plantation and mill, with 15 miles of railway, probably electric, is to be established near Hookena by W. R. Castle, Merchant St., Honolulu.——A Committee of the Board of Health has recommended the imediate building of a garbage crematory. H. E. Cooper, Pres. Bd. of Health.

NEW CALEDONIA.—A railway from Noumea to Bourai, a seaport, about 99 miles to the northwest, and a graving dock at Noumea will soon be built, as the French government will guarantee a loan of 10,000,000 francs for the purpose. The Minister of Colonies at Paris, France, has the plans in hand.

NEW ZEALAND.—It is reported that the government proposes to spend about $12,000,000 during the next two years for improving and extending the lines, enlarging the stations, rebuilding the bridges, purchasing new locomotives, cars, etc. A. J. Cadman, Minister of Rys., Wellington, N. Z.; J. H. Lowe, Ch. Engr., Wellington; W. Kennaway, Secy., Agents Generals Dept., 13 Victoria St., London, S. W., Eng.

RIO DE JANEIRO, BRAZIL.—Wm. Reid & Co., Engrs. and Importers, Rua Visconde de Inhauma, 48-49, Rio de Janeiro, have been granted a concession to exclusively furnish during 15 years electric power produced by water power and for its application to industrial uses, except illumination. They will build a power station on the main fall of the River Lage, about 37 miles from the city. There is a fall of 60 meters and another of 30 meters, with a flow of 7,000 liters per second. A dam is to be constructed that will store during a night 350,000 cu. meters, and it is proposed to tunnel the hill at the head of the fall for 120 meters and thence to carry the water in two lines of pipe to the turbine house at the foot of the hill.

SAO PAULO, BRAZIL.—It is stated that the Sao Paulo Tramway, Light & Power Co., Ltd. (formerly the Sao Paulo Ry., Light & Power Co.), will soon let contracts for 4,000 wooden trolley poles, 15,000 insulator pins, 7,000 high-potential insulators, 10,000 ft. of cable, which later on will be increased to about 10 miles of cable. A large number of other contracts have already been let. F. S. Pearson, Engr., Cable Building, Houston St. and Broadway, New York.

ARGENTINE AND CHILE.—Hopkins, Gardom & Tetley, Engrs., Calle 25 de Mayo 130, Buenos Aires, have obtained the contract for the completion of the Transandine Ry. On the Argentine side of the Andes there are 35 kilometers to be completed to the boundary line, which, it is assumed, will be at about one-third of the distance through the tunnel which it will be necessary to construct, and on the Chilian side there remains 44 kilometers, making about 49 miles in all, most of which is through the mountains. Several tunnels will have to be made, and the whole country traversed presents difficulties. The sum of $2,000,000 gold set aside by the government for the work will be inadequate.

CHILE.—Reports state that a large proportion of the balance (about $11,000,000) of the revenue will be used to repair the damage caused by the recent storms on the railways, bridges, roads and the Valparaiso embankment. The expense of repairing the public roads and bridges will amount to about $500,000, while the work of repairing the embankment at Valparaiso will cost about $400,000. All these different works are estimated to cost at least $3,300,000. Minister of Public Works, Santiago de Chile.

MONTEVIDEO, URUGUAY.—The executive has asked sanction to construct a House of Correction, for which there is already $50,000 in hand, but for which a large additional sum is to be asked. Address the Minister de Fomento (Minister of Works), Calle 25 de Mayo 104, Montevideo.——The Cabinet reported favorably on a scheme of Rosello & Co., care of the Minister of Works, for building 80 school houses in different parts of the state.

MEXICO.—The "Journal of Commerce" states that the Mexican Central R. R. Co., Mexico City, will soon start work on the line from Guadalajara to Colina, 162 miles long. Sheldon T. Bent, Gen. Supt. Vera Cruz & Pacific R. R. Co., Orizaba, Mex., also states that an extension of the main line from the Papoloapam to Santa Lucretia, 128 miles, will soon be under way, and there will be two branches, one 71 miles long to Vera Cruz, and the other 62 miles long to Oaxaca.

MANAGUA, NICARAGUA.—Press reports state that the municipal government and the Nicaragua Atlantic R. R. Co., Ltd., 43 Lothbury, E. C., London, Eng., is negotiating as to terms for supplying the city with water from Lake Asosca, a volcanic crater, two miles southwest of here. The company, if it undertakes the work, must, within 15 months after acceptance, complete the works, and furnish a full supply from the lake. The company owns the water-works, mains and supply pipes and the reservoirs now supplying the city with water from Lake Managua, in front of this place. It is asserted that the lake water is not pure, owing to the fact that the filth of the city is washed down by rains into it.

CONTRACT PRICES.

PIER WORK, BREAKWATERS, ETC.—Grand Marais, Minn.—Maj. Clinton B. Sears, U. S. Engr., Duluth, Minn., received the following bids Jan. 15, 1900, for pier work, etc.; Pier Extension at Grand Marais, Minn.—Simon Dumond, St. Paul, Minn., pier work to include mattress and stone foundation, the cribs, filling and exterior rip-rap, $91.96 a lin. ft.; stone for extra rip-rap, $15 a cord; Powell & Mitchell, Marquette, Mich., $72.35 and $16. The bids for breakwater at Grand Marais, Minn., which were rejected, are as follows, each bid is for 350 lin. ft. of material, (1) being embankment, (2) cribs and stone filling, under filling and rip-rap, complete in place; (3) superstructure complete, including stone filling:

	1.	2.	3.	Total.
Simon Dumond, St. Paul	$25.20	$68.40	$22.24	$40,544
Powell & Mitchell, Marquette	20.00	56.44	18.00	33,054
Butler-Ryan Co., St. Paul	11.20	71.30	12.00	33,075

The bids for the breakwater extension at Ashland, Wis., are as follows: (1) being for 1,200 ft. of breakwater, (2) slabs a cord, (3) stone a cord:

	1.	2.	3.	Total.
Simon Dumond, St. Paul	$24.44	$2.00	$10.00	$29,328
Hugo & Tims, Duluth	17.48	3.25	6.00	20,976
P.P. Ferguson, Ashland, Wis.	18.00	2.25	5.95	21,600
Butler-Ryan Co., St. Paul.	21.00	2.00	9.00	25,200

PIER EXTENSIONS.—Michigan.—Capt. Chester Harding, U. S. Engr., received the following bids Jan. 17, for extending piers at Grand Haven and Muskegon:

Bids Received Jan. 17, 1900, for Pier Extensions at Grand Haven and Muskegon, Mich.

Quantities.	At Grand Haven.			Quantities.	At Muskegon.		
		Weimer & Goodenough, Ludington.	Smith & Nelson, Muskegon.		McLeod & Newcombe, Manistee.	Robert Love, Muskegon.	Smith & Nelson, Muskegon.
Dredging	100 cu. yds.	$2.25	$3.00	640 cu. yds.	$0.80	$2.00	$1.00
Foundation piles	1,722 lin. ft.	1.25	.70	4,691 lin. ft.	.50	.60	.60
Oak guard piles	650 " "	.75	.50	1,248 " "	.50	.40	.50
Oak timber	1,704 ft. B.M.	55.00	60.00	1,488 ft. B.M.	50.00	50.00	60.00
Pine timber	58,168 " "	34.00	31.00	177,672 " "	30.00	30.00	31.00
Hemlock timber	166,120 " "	28.00	26.00	470,536 " "	26.00	25.00	25.00
Pine plank	7,200 " "	29.00	25.00	21,600 " "	26.00	27.00	25.00
Drift bolts	25,562 lbs.	.05	.04	73,779 lbs.	.04	.04	.04
Screw bolts	3,345 "	.06	.04	9,232 "	.04	.04	.04
Spikes	497 "	.05	.04	1,483 "	.04	.04	.04
Stone	620 cords	9.25	9.00	1,691 cords	7.00	8.00	8.50
Total		$17,035	$14,991		$36,898	$37,986	$39,732

CEMENT, STONE AND SAND.—Philadelphia, Pa.—We are informed that the following bids were received Jan. 20, 1900, by Lieut.-Col. C. W. Reymond, U. S. Engr., for furnishing building material at the government wharves at Fort Mott, N. J., and Fort Du Pont, Del., as advertised in Engineering News; (1) being for 5,460 bbls. of natural cement; (2) for 600 bbls. Portland cement, (3) for 3,300 cu. yds. small broken stone, (4) for 1,800 cu. yds. washed sand and (5) for 15,000 yds. of unwashed sand: W. T. Bradley Co., 9th St. below Girard Ave., Philadelphia, (2) $2.49; Standard Lime & Stone Co., 524 Equitable Bldg., Baltimore, (3) $1.95; John T. Dyer, Norristown, Pa., (3) $1.49; Charles Warner Co., Wilmington, Del., (1) $1.05, (2) $2.21, (4) 28 cts., (5) 22 cts.; Brandywine Granite Co., Wilmington, Del., (3) at Fort Du Pont, $1.56, at Fort Mott $1.37; Atlas Portland Cement Co., 143 Liberty St., New York, N. Y., (2) 2.60; Delaware Construction Co., Wilmington, (5) 23 cts.; B. Wallis, trading as B. Wallis & Co., 210 E. Lexington St., Baltimore, Md., (1) 1.30; Lawrenceville Cement Co., 26 Cortlandt St., New York, (1) $1.05; New York & Rosendale Cement Co., 280 Broadway, New York, (1) $1.02½; Cyrus Borgen, trading as Borgen Cement Co., Philadelphia, Pa., (2) $2.26.

SEWERS.—New York, N. Y.—The following are the six lowest bids received Jan. 17, for a sewer in East 172d St.:

Bids Received at New York, N. Y., Jan. 17, 1900, for a Sewer in 172d St.

Quantities.		Charles W. Collins, 1088 Brook Ave.	J. C. Rogers, Jr., 340 E. 125th St.	Walter J. Ford, 129 E. 125th St.	S. M. de Pasquale, Williamsbridge.	W. R. Skillman, Bedford Park.	M. J. Leahy, 3101 Third Ave.
Brick sewer, ave. cut 2 ft. 6 ins.	425 lin. ft.	$10.00	$6.00	$8.00	$5.75	$10.00	$9.00
18-in. pipe sewer	280 " "	5.00	6.00	7.00	2.50	5.00	8.00
15-in. " "	270 " "	5.00	6.00	7.00	2.20	4.00	6.00
12-in. " "	535 " "	4.50	6.00	7.00	2.10	3.00	4.25
Spurs	300 each	1.12	1.00	....	1.00	.50	1.00
Manholes	13 "	59.00	50.00	....	8.00	50.00	60.00
Receiving basins	3 "	150.07	150.00	9.00	115.00	200.00	175.00
Rock excavation	2,200 cu. yds.	....	.01	....	2.20	.75	...
Concrete	5 " "	....	5.00	....	3.00	...	...
Rubble masonry	5 " "	....	5.00	....	2.00	...	...
Broken stone	5 " "	....	2.00	....	2.00	...	...
Timber	5,000 ft. B.M.	....	25.10	....	1.00	20.00	...
Total		$11,100	$10,692	$11,265	$11,451	$11,485	$11,563

DREDGING.—Savannah, Ga.—We are informed that the following bids were received Jan. 8, 1900, by Capt. C. E. Gillette, U. S. Engr., Savannah, Ga., for 550,000 yds. of dredging in Mud River, between Beaufort, S. C., and Savannah: Geo. T. Warner, Savannah, 9 cts. a cu. yd., total, $49,500 (accepted); P. Sanford Ross, Inc., Jersey City, N. J., 12⅔ cts.; Sanford & Brooks Co., Baltimore, Md., 9 cts (bid withdrawn); Morris & Cumings Dredging Co., New York, 15.2 cts.; Rittenhouse R. Moore, Mobile, Ala., 9.3 cts.

BRIDGE WORK.—Oskaloosa, Ia.—The Fair-Williams Co., Ottumwa, Ia., is reported to have been awarded the following contract for the steel bridge work for the county during the coming year† 20 to 36-ft. spans, $5.60 a ft.; 36 to 48-ft., $6; 48 to 64-ft., $7.50; piling, wood caps, 32 cts. a ft.; piling, steel caps, 42 cts. a ft.

PUBLIC LIGHTING.—Woodbury, N. J.—D. T. Mathers, Cy.Clk., writes us that the following local bids were received Jan. 16, 1900, for public lighting for one year: Consumers' Gas Co., gas (moon-light schedule), $16 a lamp a year; all-night, $20 a light; gasoline (moon-light), $15; all-night, $19; Woodbury Electric Light & Power Co., 1,200-c. p. arc lights, all-night, $100 a year a light; moonlight, $80.

INDUSTRIAL NOTES.

THE STOW FLEXIBLE SHAFT CO., 26th and Callowhill Sts., Philadelphia, reports that its flexible shaft is now being used in Southern California in connection with tree trimming. The company also reports a large increase of orders for its portable air motor.

THE BARRETT MFG. CO., Land Title Bldg., Philadelphia, has acquired the paint department of the Atlantic Alcatraz Asphalt Co., New York, and will hereafter manufacture the Atlantic Alcatraz Asphalt paints. Mr. A. B. Clements will continue in charge of this.

THE ROBINS CONVEYING BELT CO., New York, has just installed a system of belt conveyors for the Oak Extract Co., of Newport, Pa. The conveyors take the chips from the chipper house and deliver them to the leaching tanks. After the chips have been leached they are carried by other conveyors to the furnaces.

THE STANLEY ELECTRIC MFG. CO. has been incorporated in New Jersey to take over and carry on the business of the Stanley Electric Co., Pittsfield, Mass. The new capital stock is $2,000,000, and we are informed that $1,000,000 additional cash will now be put in for the purpose of materially extending the works and business of the company. The management of the company will remain the same, excepting that Dr. F. A. C. Perrine, of the Leland Stanford, Jr., University, will be added to the technical staff. All the stock of the Stanley Electric Co. has, for some time, been owned by the John A. Roebling's Sons Co., Trenton, N. J.

THE KINNEAR MFG. CO., 278 North Fourth St., Columbus, O., has been incorporated, with $500,000 authorized capital, of which $150,000 has been issued, and has purchased from the Kinnear & Gager Co., 249 North Fourth St., Columbus, the patents, patterns, drawings and machinery of the latter's steel rolling shutter department. The new company has leased the property and buildings recently occupied by the Ohio Buggy Co., at the former address, and will occupy them until the completion of its new buildings, which are to be begun at once. The officers of the company are: Pres., W. R. Kinnear; Vice-Pres., H. C. Godman; Secy., Ferd. Schmidt; Treas., W. A. Gill; Asst. Treas., T. W. Smith.

THE BLACKMER & POST PIPE CO., St. Louis, announces that with a view to the greater efficiency of the large sizes of its vitrified pipe, it has decided to make all sizes 27 to 36 ins., in sections 3 ft. long, instead of 2½ ft., as heretofore. As these large sizes of pipe, whether 2½ or 3 ft. long, cannot conveniently be handled without the aid of a derrick or other mechanical appliance, no objection can be made to the change on account of the increased weight, while the important advantages gained are: (1) The saving of time, labor and material required in making one joint in every five; (2) rapidity of construction; (3) better alinement and adherence to grades; (4) stronger and more durable completed work, by reason of the reduced number of joints.

THE STANDARD PNEUMATIC TOOL CO., Marquette Bldg., Chicago, announces that its mechanical superintendent, Mr. Henry James Kimman, after an absence of three months, has just returned from an extensive European tour. While in England he established works at Chippenham, near London, for the manufacture of the "Little Giant" pneumatic tools for the European trade, and installed therein $50,000 worth of the most improved machinery and labor-saving appliances, and before his departure for this country the plant was in full operation and turning out tools in large numbers. The company states that its export business has increased with remarkable rapidity during the past year, and that its "Little Giant" pneumatic drills, hammers and boring machines are now in use in foundries, ship yards, machine shops, railway and boiler works and manufactories in Great Britain, France, Germany, Italy, Sweden and Russia, and it recently received an order for $25,000 worth of pneumatic tools from a machinery dealer in Holland. The domestic business of the company is also increasing, particularly with the railways.

EXHIBITORS AT THE CONVENTION OF THE NORTH-WESTERN ELECTRICAL ASSOCIATION.

There were no exhibits of large machinery at the convention held at Milwaukee, Wis., Jan. 17 to 19, but there were several exhibits of arc and incandescent lamps and electrical apparatus and appliances, such as would interest the central station men composing the association. The exhibitors were as follows:

M. B. Austin Co., 321 Dearborn St., Chicago, Ill.
Bryan & Marsh Electric Co., Monadnock Block, Chicago, Ill.
Crouse-Hinds Electric Co., Monadnock Block, Chicago, Ill.
Cutler-Hammer Mfg. Co., Milwaukee, Wis. (Rheustats).
Electric Appliance Co., 92 W. Van Buren St., Chicago, Ill.
Fort Wayne Electric Works, Fort Wayne, Ind.
General Electric Co., New York and Chicago.
General Incandescent Lamp Co., Cleveland, O.
General Incandescent Arc Lamp Co., New York, N. Y.
Gregory Electric Co., 54 South Clinton St., Chicago, Ill.
H. A. Hamacek, Sturgeon Bay, Wis. (alternating arc lamps).
Illinois Electric Co., 239 Madison St., Chicago, Ill.
Martin J. Insull Co., Monadnock Block, Chicago, Ill.
Sangamo Electric Co., Springfield, Ill.
Siemens & Halske, Monadnock Block, Chicago, Ill.
A. J. Stahl, La Porte, Ind. (Hot water heating for central stations.)
Viscosity Oil Co., 315 Dearborn St., Chicago, Ill.
Wagner Electric Mfg. Co., St. Louis, Mo.

The New Advertisements on Page XXI ("Wants") and Pages XXII--XXIII ("For Sale") May Interest You.

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